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(54) Title: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN LUNG

(57) Abstract: A single exon nucleic acid microarray comprising a plurality of single exon nucleic acid probes for measuring gene expression in a sample derived from human lung is described. Also described are single exon nucleic acid probes expressed in the lung and their use in methods for detecting gene expression.

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HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN LUNG

CROSS REFERENCE TO RELATED APPLICATIONS

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The present application is a continuation-in-part of U.S. patent application serial nos. 09/632,366, filed August 3, 2000 and 09/608,408, filed June 30, 2000; claims the benefit under 35 U.S.C. s 119(e) of U.S.provisional patent 10 application serial nos. 60/236,359, filed September 27, 2000, 60/234,687, filed September 21, 2000, 60/207,456, filed May 26, 2000, and 60/180,312, filed February 4, 2000; and further claims the benefit under 35 U.S.C. s 119(a) of UK patent application no. 0024263.6, filed October 4, 2000, 15 the disclosures of which are incorporated herein by reference in their entireties.

REFERENCE TO SEQUENCE LISTING AND INCORPORATION BY REFERENCE THEREOF

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The present application includes a Sequence Listing in electronic format, filed pursuant to PCT Administrative Instructions 801 - 806 on a single CD-R disc, in triplicate, containing a file named pto_LUNG.txt, created 25 24 January 2001, having 25,232,785 bytes. The Sequence Listing contained in said file on said disc is incorporated herein by reference in its entirety.

Field of the Invention

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The present invention relates to genome-derived single exon microarrays useful for verifying the expression of regions of genomic DNA predicted to encode protein. In particular, the present invention relates to unique genome-35 derived single exon nucleic acid probes expressed in human

lung and single exon nucleic acid microarrays that include such probes.

Background of the Invention

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For almost two decades following the invention of general techniques for nucleic acid sequencing, Sanger et al., Proc. Natl. Acad. Sci. USA 70(4):1209-13 (1973); Gilbert et al., Proc. Natl. Acad. Sci. USA 70(12):3581-4 (1973), these techniques were used principally as tools to 10 further the understanding of proteins - known or suspected - about which a basic foundation of biological knowledge had already been built. In many cases, the cloning effort that preceded sequence identification had been both informed and directed by that antecedent 15 biological understanding.

For example, the cloning of the T cell receptor for antigen was predicated upon its known or suspected cell type-specific expression, by its suspected membrane association, and by the predicted assembly of its gene via 20 T cell-specific somatic recombination. Subsequent sequencing efforts at once confirmed and extended understanding of this family of proteins. Hedrick et al., *Nature* 308(5955):153-8 (1984).

More recently, however, the development of high 25 throughput sequencing methods and devices, in concert with large public and private undertakings to sequence the human and other genomes, has altered this investigational paradigm: today, sequence information often precedes understanding of the basic biology of the encoded protein 30 product.

One of the approaches to large-scale sequencing is predicated upon the proposition that expressed sequences - that is, those accessible through isolation of mRNA - are of greatest initial interest. This "expressed 35 sequence tag" ("EST") approach has already yielded vast

amounts of sequence data (see for example Adams et al.,

Science 252:1651.(1991); Williamson, Drug Discov. Today

4:115 (1999)). For nucleic acids sequenced by this

approach, often the only biological information that is

known a priori with any certainty is the likelihood of

biologic expression itself. By virtue of the species and

tissue from which the mRNA had originally been obtained,

most such sequences are also annotated with the identity of

the species and at least one tissue in which expression

appears likely.

More recently, the pace of genomic sequencing has accelerated dramatically. When genomic DNA serves as the initial substrate for sequencing efforts, expression cannot be presumed; often the only a priori biological information about the sequence includes the species and chromosome (and perhaps chromosomal map location) of origin.

With the ever-accelerating pace of sequence accumulation by directed, EST, and genomic sequencing approaches — and in particular, with the accumulation of sequence information from multiple genera, from multiple species within genera, and from multiple individuals within a species — there is an increasing need for methods that rapidly and effectively permit the functions of nucleic sequences to be elucidated. And as such functional information accumulates, there is a further need for methods of storing such functional information in meaningful and useful relationship to the sequence itself; that is, there is an increasing need for means and apparatus for annotating raw sequence data with known or predicted functional information.

Although the increase in the pace of genomic sequencing is due in large part to technological changes in sequencing strategies and instrumentation, Service, Science 280:995 (1998); Pennisi, Science 283: 1822-1823 (1999),

35 there is an important functional motivation as well.

While it was understood that the EST approach would rarely be able to yield sequence information about the noncoding portions of the genome, it now also appears the EST approach is capable of capturing only a fraction of a genome's actual expression complexity.

For example, when the C. elegans genome was fully sequenced, gene prediction algorithms identified over 19,000 potential genes, of which only 7,000 had been found by EST sequencing. C. elegans Sequencing Consortium, Science 282:2012 (1998). Analogously, the recently completed sequence of chromosome 2 of Arabidopsis predicts over 4000 genes, Lin et al., Nature, 402:761 (1999), of which only about 6% had previously been identified via EST sequencing efforts. Although the human genome has the 15 greatest depth of EST coverage, it is still woefully short of surrendering all of its genes. One recent estimate suggests that the human genome contains more than 146,000 genes, which would at this point leave greater than half of the genes undiscovered. It is now predicted that many 20 genes, perhaps 20 to 50%, will only be found by genomic sequencing.

There is, therefore, a need for methods that permit the functional regions of genomic sequence — and most importantly, but not exclusively, regions that

25 function to encode genes — to be identified.

Much of the coding sequence of the human genome is not homologous to known genes, making detection of open reading frames ("ORFs") and predictions of gene function difficult. Computational methods exist for predicting coding regions in eukaryotic genomes. Gene prediction programs such as GRAIL and GRAIL II, Uberbacher et al., Proc. Natl. Acad. Sci. USA 88(24):11261-5 (1991); Xu et al., Genet. Eng. 16:241-53 (1994); Uberbacher et al., Methods Enzymol. 266:259-81 (1996); GENEFINDER, Solovyev et al., Nucl. Acids. Res. 22:5156-63 (1994); Solovyev et al.,

Ismb 5:294-302 (1997); and GENESCAN, Burge et al., J. Mol. Biol. 268:78-94 (1997), predict many putative genes without known homology or function. Such programs are known, however, to give high false positive rates. Burset et al., 5 Genomics 34:353-367 (1996). Using a consensus obtained by a plurality of such programs is known to increase the reliability of calling exons from genomic sequence. Ansari-Lari et al., Genome Res. 8(1):29-40 (1998)

Identification of functional genes from genomic 10 data remains, however, an imperfect art. For example, in reporting the full sequence of human chromosome 21, the Chromosome 21 Mapping and Sequencing Consortium reports that prior bioinformatic estimates of human gene number may need to be revised substantially downwards. Nature 405:311-199 (2000); Reeves, Nature 405:283-284 (2000).

Thus, there is a need for methods and apparatus that permit the functions of the regions identified bioinformatically - and specifically, that permit the expression of regions predicted to encode protein - readily 20 to be confirmed experimentally.

Recently, the development of nucleic acid microarrays has made possible the automated and highly parallel measurement of gene expression. Reviewed in Schena (ed.), DNA Microarrays : A Practical Approach 25 (Practical Approach Series), Oxford University Press (1999) (ISBN: 0199637768); Nature Genet. 21(1)(suppl):1 - 60 (1999); Schena (ed.), Microarray Biochip: Tools and Technology, Eaton Publishing Company/BioTechniques Books Division (2000) (ISBN: 1881299376).

It is common for microarrays to be derived from cDNA/EST libraries, either from those previously described in the literature, such as those from the I.M.A.G.E. consortium, Lennon et al., Genomics 33(1):151-2 (1996), or from the construction of "problem specific" libraries 35 targeted at a particular biological question, R.S. Thomas

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et al., Cancer Res. (in press). Such microarrays by definition can measure expression only of those genes found in EST libraries, and thus have not been useful as probes for genes discovered solely by genomic sequencing.

The utility of using whole genome nucleic acid microarrays to answer certain biological questions has been demonstrated for the yeast Saccharomyces cerevisiae. De Risi et al., Science 278:680 (1997). The vast majority of yeast nuclear genes, approximately 95% however, are single exon genes, i.e., lack introns, Lopez et al., RNA 5:1135-1137 (1999); Goffeau et al., Science 274:563-67 (1996), permitting coding regions more readily to be identified. Whole genome nucleic acid microarrays have not generally been used to probe gene expression from more complex eukaryotic genomes, and in particular from those averaging more than one intron per gene.

Diseases of the lung are a significant cause of human morbidity and mortality. Increasingly, genetic factors are being found that contribute to predisposition, onset, and/or aggressiveness of most, if not all, of these diseases; although causative mutations in single genes have been identified for some, these disorders are, for the most part, believed to have polygenic etiologies. There is a need for methods and apparatus that permit prediction, diagnosis and prognosis of diseases of the human lung, particularly those diseases with polygenic etiology.

Summary of the Invention .

The present invention solves these and other problems in the art by providing methods and apparatus for predicting, confirming, and displaying functional information derived from genomic sequence. The present invention also provides apparatus for verifying the expression of putative genes identified within genomic

sequence.

In particular, the invention provides novel genome-derived single exon nucleic acid microarrays useful for verifying the expression of putative genes identified within genomic sequence.

The present invention also provides compositions and kits for the ready production of nucleic acids identical in sequence to, or substantially identical in sequence to, probes on the genome-derived single exon microarrays of the present invention.

Accordingly, in a first aspect of the invention, there is provided a spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived from human lung, comprising a plurality of single exon nucleic acid probes according to any one of the nucleotide sequences set out in SEQ ID NOs: 1 - 12,614 or a complementary sequence, or a portion of such a sequence.

By plurality is meant at least two, suitably at least 20, most suitably at least 100, preferably at least 1000 and, most preferably, upto 5000.

In one embodiment of the first aspect, each of said plurality of probes is separately and addressably amplifiable.

In an alternative embodiment, each of said
25 plurality of probes is separately and addressably
isolatable from said plurality.

In a preferred embodiment, each of said plurality of probes is amplifiable using at least one common primer.

Preferably, each of said plurality of probes is amplifiable using a first and a second common primer.

In yet another embodiment, said set of single exon nucleic acid probes comprises between 50 - 20,000 probes, for example, 50 - 5000.

Suitably, said set of single exon nucleic acid 35 probes comprises at least 50 - 1000 discrete single exon

nucleic acid probes having a sequence as set out in any of SEQ ID NOS.: 1 - 25,001 or a complimentary sequence, or a portion of such a sequence.

Preferably, the average length of the single exon nucleic acid probes is between 200 and 500 bp. It is preferred that the average length should be at least 200bp, suitably at least 250bp, most suitably at least 300bp, preferably at least 400bp and, most preferably, 500 bp.

In another embodiment, the single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence. It is preferred that at least 50%, suitably at least 60%, most suitably at least 70%, preferably at least 75%, more preferably at least 80, 85, 90, 95 or 99% of said single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence.

In another preferred embodiment, said single exon nucleic acid lack homopolymeric stretches of A or T. It is preferred that at least 50%, suitably at least 60%, most suitably at least 70%, preferably at least 75%, more preferably at least 80, 85, 90, 95 or 99% of said single exon nucleic acid probes lack homopolymeric stretches of A or T.

Preferably, a spatially-addressable set of single exon nucleic acid probes in accordance with the first aspect of the invention is is addressably disposed upon a substrate.

Suitable substrates include a filter membrane which may, preferably, be nitrocellulose or nylon. The nylon may preferably, be positively-charged. Other suitable substrates include glass, amorphous silicon, crystalline silicon, and plastic. Further suitable materials include polymethylacrylic, polyethylene, polypropylene, polyacrylate, polymethylmethacrylate, polyvinylchloride, polytetrafluoroethylene, polystyrene, polycarbonate, polyacetal, polysulfone, celluloseacetate,

cellulosenitrate, nitrocellulose, and mixtures thereof.

In a second aspect of the invention, there is provided a microarray comprising a spatially addressable set of single exon nucleic acid probes in accordance with the first aspect of the invention.

In one embodiment, a genome-derived single-exon microarray is packaged together with such an ordered set of amplifiable probes corresponding to the probes, or one or more subsets of probes, thereon. In alternative embodiments, the ordered set of amplifiable probes is packaged separately from the genome-derived single exon microarray.

In another aspect, the invention provides genomederived single exon nucleic acid probes useful for gene
expression analysis, and particularly for gene expression
analysis by microarray. In particular embodiments of this
aspect, the present invention provides human single-exon
probes that include specifically-hybridizable fragments of
SEQ ID Nos. 12,615 - 25,001, wherein the fragment
hybridizes at high stringency to an expressed human gene.
In particular embodiments, the invention provides single
exon probes comprising SEQ ID Nos. 1 - 12,614.

Accordingly, in a third aspect of the invention, there is provided a single exon nucleic acid probe for

25 measuring human gene expression in a sample derived from human lung which is a nucleic acid molecule comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 1 - 12,614 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid expressed in the human lung.

In one embodiment, a single exon nucleic acid probe in accordance with the third aspect comprises a nucleotide sequence as set out in any of SEQ ID NOs.:

12,615 - 25,001 or a complementary sequence or a fragment thereof.

In a fourth aspect of the invention, there is provided a single exon nucleic acid probe for measuring human gene expression in a sample derived from human lung which is a nucleic acid molecule having a sequence encoding a peptide comprising a peptide sequence as set out in any of SEQ ID NOs.: 25,002 - 37,012 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid expressed in the human lung.

Preferably, a single exon nucleic acid probe in accordance with the third or fourth aspects of the invention comprises between at least 15 and 50 contiguous nucleotides of said SEQ ID NO:. It is preferred that the single exon nucleic acid probe comprises at least 15, suitably at least 20, more suitably at least 25 or preferably at least 50 contiguous nucleotides of said SEQ ID NO:.

In another preferred embodiment, a single exon nucleic acid probe in accordance with the third or fourth aspects of the invention is between 3kb and 25kb in length.

20 It is preferred that said probe is no more than 3kb, suitably no more than 5kb, more suitably no more than 10kb, preferably 15kb, more preferably 20kb or, most preferably, no more than 20kb in length.

Preferably, a single exon nucleic acid probe in accordance with either the fifth or sixth aspect of the invention is DNA, preferably single-stranded DNA, RNA or PNA.

In another embodiment of either the third or fourth aspect of the invention, a single exon nucleic acid probe is detectably labeled. Suitable detectable labels include a radionuclide, a fluorescent label or a first member of a specific binding pair. Suitable fluorescent labels include dyes such as cyanine dyes, preferably Cy3 and Cy5 although other suitable dyes will be known to those skilled in the art.

In a particularly preferred embodiment, a single exon nucleic acid probe in accordance with either the third or fourth aspect of the invention lacks prokaryotic and bacteriophage vector sequence. In yet another embodiment, a single exon nucleic acid probe in accordance with either the third or fourth aspect of the invention lacks homopolymeric stretches of A or T.

In a fifth aspect of the invention, there is provided an amplifiable nucleic acid composition, comprising:

the single exon nucleic acid probe in accordance with either of the third or fourth aspects of the invention; and at least one nucleic acid primer;

wherein said at least one primer is sufficient to prime enzymatic amplification of said probe.

In an sixth aspect of the invention, there is provided a method of measuring gene expression in a sample derived from human lung, comprising:

contacting the single exon microarray in

20 accordance with the second aspect of the invention, with a
first collection of detectably labeled nucleic acids, said
first collection of nucleic acids derived from mRNA of
human lung; and then

measuring the label detectably bound to each probe of said microarray.

In a seventh aspect of the invention, there is provided a method of identifying exons in a eukaryotic genome, comprising:

algorithmically predicting at least one exon from 30 genomic sequence of said eukaryote; and then

detecting specific hybridization of detectably labeled nucleic acids to a single exon probe,

wherein said detectably labeled nucleic acids are derived from mRNA from the lung of said eukaryote, said probe is a single exon probe having a fragment identical in

sequence to, or complementary in sequence to, said predicted exon, said probe is included within a single exon microarray in accordance with the first aspect of the invention, and said fragment is selectively hybridizable at high stringency.

In a eighth aspect of the invention, there is provided a method of assigning exons to a single gene, comprising:

identifying a plurality of exons from genomic

10 sequence in accordance with the seventh aspect of the invention; and then

measuring the expression of each of said exons in a plurality of tissues and/or cell types using hybridization to single exon microarrays having a probe with said exon,

wherein a common pattern of expression of said exons in said plurality of tissues and/or cell types indicates that the exons should be assigned to a single gene.

In an ninth aspect of the invention, there is provided a nucleic acid sequence as set out in any of SEQ ID NOs: 1 - 25,001 wherein said sequence encodes a peptide.

In a tenth aspect of the invention, there is provided a peptide encoded by a sequence comprising a sequence as set out in any of SEQ ID NOs: 12,615 - 25,001, or a complementary sequence or coding portion thereof.

In a preferred embodiment, a peptide may be encoded by a sequence comprising a sequence set out in any of SEQ ID NOS.: 1 -12,614.

In a further aspect, the invention provides peptides comprising an amino acid sequence translated from the DNA fragments, said amino acid sequences comprising SEQ ID NOS.: 25,002 - 37,012.

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Accordingly in a eleventh aspect of the invention there is provided a peptide comprising a sequence as set

out in any of SEQ ID NOs: 25,002 - 37,012, or fragment thereof.

In another aspect, the invention provides means for displaying annotated sequence, and in particular, for 5 displaying sequence annotated according to the methods and apparatus of the present invention. Further, such display can be used as a preferred graphical user interface for electronic search, query, and analysis of such annotated sequence.

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Detailed Description of the Invention

Definitions

As used herein, the term "microarray" and phrase 15 "nucleic acid microarray" refer to a substrate-bound collection of plural nucleic acids, hybridization to each of the plurality of bound nucleic acids being separately detectable. The substrate can be solid or porous, planar 20 or non-planar, unitary or distributed.

As so defined, the term "microarray" and phrase "nucleic acid microarray" include all the devices so called in Schena (ed.), DNA Microarrays: A Practical Approach (Practical Approach Series), Oxford University Press (1999) 25 (ISBN: 0199637768); Nature Genet. 21(1)(suppl):1 - 60 (1999); and Schena (ed.), Microarray Biochip: Tools and Technology, Eaton Publishing Company/BioTechniques Books Division (2000) (ISBN: 1881299376). As so defined, the term "microarray" and phrase "nucleic acid microarray" 30 further include substrate-bound collections of plural nucleic acids in which the nucleic acids are distributably disposed on a plurality of beads, rather than on a unitary planar substrate, as is described, inter alia, in Brenner et al., Proc. Natl. Acad. Sci. USA 97(4):166501670 (2000); 35 in such case, the term "microarray" and phrase "nucleic

acid microarray" refer to the plurality of beads in aggregate.

As used herein with respect to a nucleic acid microarray, the term "probe" refers to the nucleic acid that is, or is intended to be, bound to the substrate; in such context, the term "target" thus refers to nucleic acid intended to be bound thereto by Watson-Crick complementarity. As used herein with respect to solution phase hybridization, the term "probe" refers to the nucleic acid of known sequence that is detectably labeled.

As used herein, the expression "probe comprising SEQ ID NO.", and variants thereof, intends a nucleic acid probe, at least a portion of which probe has either (i) the sequence directly as given in the referenced SEQ ID NO., or (ii) a sequence complementary to the sequence as given in the referenced SEQ ID NO., the choice as between sequence directly as given and complement thereof dictated by the requirement that the probe hybridize to mRNA.

As used herein, the term "open reading frame" and
the equivalent acronym "ORF" refer to that portion of an
exon that can be translated in its entirety into a sequence
of contiguous amino acids i.e. a nucleic acid sequence
that, in at least one reading frame, does not possess stop
codons; the term does not require that the ORF encode the
entirety of a natural protein.

As used herein, the term "amplicon" refers to a PCR product amplified from human genomic DNA, containing the predicted exon.

As used herein the term "exon" refers to the consensus prediction of the various exon and gene predicting algorithms i.e. a nucleic acid sequence bioinformatically predicted to encode a portion of a natural protein.

As used herein, the term "peptide" refers to a sequence of amino acids. The sequences referred to as

PEPTIDE SEQ ID NOS.: are the predicted peptide sequences that would be translated from one of the exons, or a portion thereof set out in exon SEQ ID NOS .: . The codons encoding the peptide are wholly contained within the exon.

As used herein, a "portions" of a defined nucleotide sequence or sequences can be and, preferably, are fragments unique to that sequence or to one or a combination of those sequences. A fragment unique to a nucleic acid molecule is one that is a signature for the larger nucleic acid molecule.

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As used herein, the phrase "expression of a probe" and its linguistic variants means that the ORF present within the probe, or its complement, is present within a target mRNA.

As used herein, "stringent conditions" refers to parameters well known to those skilled in the art. When a nucleic acid molecule is said to be hybridisable to another of a given sequence under "stringent conditions" it is meant that it is homologous to the given sequence.

As used herein, the phrase "specific binding pair" intends a pair of molecules that bind to one another with high specificity. Binding pairs are said to exhibit specific binding when they exhibit avidity of at least 107, preferably at least 108, more preferably at least 109 25 liters/mole. Nonlimiting examples of specific binding pairs are: antibody and antigen; biotin and avidin; and biotin and streptavidin.

As used herein with respect to the visual display of annotated genomic sequence, the term "rectangle" means 30 any geometric shape that has at least a first and a second border, wherein the first and second borders each are capable of mapping uniquely to a point of another visual object of the display.

As used herein, a "Mondrian" means a visual 35 display in which a single genomic sequence is annotated

with predicted and experimentally confirmed functional information.

5 Brief Description of the Drawings

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The present invention is further illustrated with reference to the following non-limiting figures and examples in which:

functional regions from genomic sequence, confirming the functional activity of such regions experimentally, and associating and displaying the data so obtained in meaningful and useful relationship to the original sequence data;

FIG. 2 further elaborates that portion of the process schematized in FIG. 1 for predicting functional regions from genomic sequence;

FIG. 3 illustrates a Mondrian visual display;
FIG. 4 presents a Mondrian showing a hypothetical annotated genomic sequence;

FIG. 5 is a histogram showing the distribution of ORF length and PCR products as obtained, with ORF length shown in black and PCR product length shown in dotted

25 lines:

FIG. 6 is a histogram showing the distribution, among exons predicted according to the methods described, of expression as measured using simultaneous two color hybridization to a genome-derived single exon microarray.

The graph shows the number of sequence-verified products that were either not expressed ("0"), expressed in one or more but not all tested tissues ("1" - "9"), or expressed in all tissues tested ("10");

FIG. 7 is a pictorial representation of the expression of verified sequences that showed expression

with signal intensity greater than 3 in at least one tissue, with: FIG. 7A showing the expression as measured by microarray hybridization in each of the 10 measured tissues, and the expression as measured "bioinformatically" by query of EST, NR and SwissProt databases; with FIG. 7B showing the legend for display of physical expression (ratio) in FIG. 7A; and with FIG. 7C showing the legend for scoring EST hits as depicted in FIG. 7A;

FIG. 8 shows a comparison of normalized CY3

10 signal intensity for arrayed sequences that were identical to sequences in existing EST, NR and SwissProt databases or that were dissimilar (unknown), where black denotes the signal intensity for all sequence-verified products with a BLAST Expect ("E") value of greater than 1e-30 (1 x 10⁻³⁰)

15 ("unknown") and a dotted line denotes sequence-verified spots with a BLAST expect ("E") value of less than 1e-30 (1 x 10⁻³⁰) ("known");

FIG. 9 presents a Mondrian of BAC AC008172 (bases 25,000 to 130,000), containing the carbamyl phosphate synthetase gene (AF154830.1); and

FIG. 10 is a Mondrian of BAC A049839.

Methods and Apparatus for Predicting, Confirming, 25 Annotating, and Displaying Functional Regions From Genomic Sequence Data

FIG. 1 is a flow chart illustrating in broad outline a process for predicting functional regions from genomic sequence, confirming and characterizing the functional activity of such regions experimentally, and then associating and displaying the information so obtained in meaningful and useful relationship to the original sequence data.

The initial input into process 10 of the present

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invention is drawn from one or more databases 100 containing genomic sequence data. Because genomic sequence is usually obtained from subgenomic fragments, the sequence data typically will be stored in a series of records corresponding to these subgenomic sequenced fragments. Some fragments will have been catenated to form larger contiguous sequences ("contigs"); others will not. A finite percentage of sequence data in the database will typically be erroneous, consisting inter alia of vector sequence, sequence created from aberrant cloning events, sequence of artificial polylinkers, and sequence that was erroneously read.

Each sequence record in database 100 will minimally contain as annotation a unique sequence

identifier (accession number), and will typically be annotated further to identify the date of accession, species of origin, and depositor. Because database 100 can contain nongenomic sequence, each sequence will typically be annotated further to permit query for genomic sequence.

Chromosomal origin, optionally with map location, can also be present. Data can be, and over time increasingly will be, further annotated with additional information, in part through use of the present invention, as described below. Annotation can be present within the data records, in information external to database 100 and linked to the records thereto, or through a combination of the two.

Databases useful as genomic sequence database 100 in the present invention include GenBank, and particularly include several divisions thereof, including the

30 htgs(draft), NT (nucleotide, command line), and NR (nonredundant) divisions. GenBank is produced by the National Institutes of Health and is maintained by the National Center for Biotechnology Information (NCBI).

Databases of genomic sequence from species other than

35 human, such as mouse, rat, Arabidopsis, C. elegans, C.

brigsii, Drosophila, zebra fish, and other higher eukaryotic organisms will also prove useful as genomic sequence database 100.

Genomic sequence obtained by query of genomic

sequence database 100 is then input into one or more

processes 200 for identification of regions therein that

are predicted to have a biological function as specified by

the user. Such functions include, but are not limited to,

encoding protein, regulating transcription, regulating

message transport after transcription into mRNA, regulating

message splicing after transcription into mRNA, of

regulating message degradation after transcription into

mRNA, and the like. Other functions include directing

somatic recombination events, contributing to chromosomal

stability or movement, contributing to allelic exclusion or

X chromosome inactivation, and the like.

The particular genomic sequence to be input into process 200 will depend upon the function for which relevant sequence is to be identified as well as upon the approach chosen for such identification. Process step 200 can be iterated to identify different functions within a given genomic region. In such case, the input often will be different for the several iterations.

function by process 200 are then input into process 300, where a subset of the input sequences suitable for experimental confirmation is identified. Experimental confirmation can involve physical and/or bioinformatic assay. Where the subsequent experimental assay is bioinformatic, rather than physical, there are fewer constraints on the sequences that can be tested, and in this latter case therefore process 300 can output the entirety of the input sequence.

The subset of sequences output from process 300 is then used in process 400 for experimental verification

and characterization of the function predicted in process 200, which experimental verification can, and often will, include both physical and bioinformatic assay.

Process 500 annotates the sequence data with the

functional information obtained in the physical and/or
bioinformatic assays of process 400. Such annotation can
be done using any technique that usefully relates the
functional information to the sequence, as, for example, by
incorporating the functional data into the sequence data
record itself, by linking records in a hierarchical or
relational database, by linking to external databases, by a
combination thereof, or by other means well known within
the database arts. The data can even be submitted for
incorporation into databases maintained by others, such as
GenBank, which is maintained by NCBI.

As further noted in FIG. 1, additional annotation can be input into process 500 from external sources 600.

The annotated data is then displayed in process 800, either before, concomitantly with, or after optional storage 700 on nontransient media, such as magnetic disk, optical disc, magnetooptical disk, flash memory, or the like.

FIG. 1 shows that the experimental data output from process 400 can be used in each preceding step of process 10: e.g., facilitating identification of functional sequences in process 200, facilitating identification of an experimentally suitable subset thereof in process 300, and facilitating creation of physical and/or informational substrates for, and performance of subsequent assay, of functional sequences in process 400.

Information from each step can be passed directly to the succeeding process, or stored in permanent or interim form prior to passage to the succeeding process.

Often, data will be stored after each, or at least a plurality, of such process steps: Any or all process steps

can be automated.

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FIG. 2 further elaborates the prediction of functional sequence within genomic sequence according to process 200.

Genomic sequence database 100 is first queried 20 for genomic sequence.

The sequence required to be returned by query 20 will depend, in the first instance, upon the function to be identified.

10 For example, genomic sequences that function to encode protein can be identified inter alia using gene prediction approaches, comparative sequence analysis approaches, or combinations of the two. In gene prediction analysis, sequence from one genome is input into process 200 where at least one, preferably a plurality, of algorithmic methods are applied to identify putative coding regions. In comparative sequence analysis, by contrast, corresponding, e.g., syntenic, sequence from a plurality of sources, typically a plurality of species, is input into process 200, where at least one, possibly a plurality, of algorithmic methods are applied to compare the sequences and identify regions of least variability.

The exact content of query 20 will also depend upon the database queried. For example, if the database contains both genomic and nongenomic sequence, perhaps derived from multiple species, and the function to be determined is protein coding regions in human genomic sequence, the query will accordingly require that the sequence returned be genomic and derived from humans.

Query 20 can also incorporate criteria that compel return of sequence that meets operative requirements of the subsequent analytical method. Alternatively, or in addition, such operative criteria can be enforced in subsequent preprocess step 24.

For example, if the function sought to be

identified is protein coding, query 20 can incorporate criteria that return from genomic sequence database 100 only those sequences present within contigs sufficiently long as to have obviated substantial fragmentation of any given exon among a plurality of separate sequence fragments.

Such criteria can, for example, consist of a required minimal individual genomic sequence fragment length, such as 10 kb, more typically 20 kb, 30 kb, 40kb, and preferably 50 kb or more, as well as an optional further or alternative requirement that sequence from any given clone, such as a bacterial artificial chromosome ("BAC"), be presented in no more than a finite maximal number of fragments, such as no more than 20 separate pieces, more typically no more than 15 fragments, even more typically no more than about 10 - 12 fragments.

Results using the present invention have shown that genomic sequence from bacterial artificial chromosomes (BACs) is sufficient for gene prediction analysis according to the present invention if the sequence is at least 50 kb in length, and if additionally the sequence from any given BAC is presented in fewer than 15, and preferably fewer than 10, fragments. Accordingly, query 20 can incorporate a requirement that data accessioned from BAC sequencing be in fewer than 15, preferably fewer than 10, fragments.

An additional criterion that can be incorporated into the query can be the date, or range of dates, of sequence accession. Although the process has been described above as if genomic sequence database 100 were static, it is of course understood that the genomic sequence databases need not be static, and indeed are typically updated on a frequent, even hourly, basis. Thus, as further described in Examples 1 and 2, infra, it is possible to query the database for newly added sequence, either newly added after an absolute date, or newly added

relative to a prior analysis performed using the methods and apparatus of the present invention. In this way, the process herein described can incorporate a dynamic, temporal component.

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One utility of such temporal limitation is to identify, from newly accessioned genomic sequence, the presence of novel genes, particularly those not previously identified by EST sequencing (or other sequencing efforts that are similarly based upon gene expression). As further described in Example 1, such an approach has shown that newly accessioned human genomic sequence, when analyzed for sequences that function to encode protein, readily identifies genes that are novel over those in existing EST and other expression databases. This makes the methods of 15 the present invention extremely powerful gene discovery tools. And as would be appreciated, such gene discovery can be performed using genomic sequence from species other than human.

If query 20 incorporates multiple criteria, such as above-described, the multiple criteria can be performed as a series of separate queries or as a single query, depending in part upon the query language, the complexity of the query, and other considerations well known in the database arts.

If query 20 returns no genomic sequence meeting the query criteria, the negative result can be reported by process 22, and process 200 (and indeed, entire process 10) ended 23, as shown. Alternatively, or in addition to report and termination of the initial inquiry, a new query 20 can be generated that takes into account the initial negative result.

When query 20 returns sequence meeting the query criteria, the returned sequence is then passed to optional preprocessing 24, suitable and specific for the desired 35 analytical approach and the particular analytical methods

thereof to be used in process 25.

Preprocessing 24 can include processes suitable for many approaches and methods thereof, as well as processes specifically suited for the intended subsequent analysis.

Preprocessing 24 suitable for most approaches and methods will include elimination of sequence irrelevant to, or that would interfere with, the subsequent analysis.

Such sequence includes repetitive sequence, such as Alu repeats and LINE elements, vector sequence, artificial sequence, such as artificial polylinkers, and the like. Such removal can readily be performed by identification and subsequent masking of the undesired sequence.

Identification can be effected by comparing the
genomic sequence returned by query 20 with public or
private databases containing known repetitive sequence,
vector sequence, artificial sequence, and other artifactual
sequence. Such comparison can readily be done using
programs well known in the art, such as CROSS_MATCH, or by
proprietary sequence comparison programs the engineering of
which is well within the skill in the art.

Alternatively, or in addition, undesirable, including artifactual, sequence can be identified algorithmically without comparison to external databases and thereafter removed. For example, synthetic polylinker sequence can be identified by an algorithm that identifies a significantly higher than average density of known restriction sites. As another example, vector sequence can be identified by algorithms that identify nucleotide or codon usage at variance with that of the bulk of the genomic sequence.

Once identified, undesired sequence can be removed. Removal can usefully be done by masking the undesired sequence as, for example, by converting the specific nucleotide references to one that is unrecognized

by the subsequent bioinformatic algorithms, such as "X".

Alternatively, but at present less preferred, the undesired sequence can be excised from the returned genomic sequence, leaving gaps.

Preprocessing 24 can further include selection from among duplicative sequences of that one sequence of highest quality. Higher quality can be measured as a lower percentage of, fewest number of, or least densely clustered occurrence of ambiguous nucleotides, defined as those nucleotides that are identified in the genomic sequence using symbols indicating ambiguity. Higher quality can also or alternatively be valued by presence in the longest contig.

Preprocessing 24 can, and often will, also include formatting of the data as specifically appropriate for passage to the analytical algorithms of process 25. Such formatting can and typically will include, inter alia, addition of a unique sequence identifier, either derived from the original accession number in genomic sequence database 100, or newly applied, and can further include additional annotation. Formatting can include conversion from one to another sequence listing standard, such as conversion to or from FASTA or the like, depending upon the input expected by the subsequent process.

25 Preprocessing, which can be optional depending upon the function desired to be identified and the informational requirements of the methods for effecting such identification, is followed by sequence processing 25, where sequences with the desired function are identified within the genomic sequence.

As mentioned above, such functions can include, but are not limited to, encoding protein, regulating transcription, regulating message transport after transcription into mRNA, regulating message splicing after transcription, of regulating message degradation, and the

like. Other functions include directing somatic recombination events, contributing to chromosomal stability or movement, contributing to allelic exclusion or X chromosome inactivation, or the like.

The methods of the present invention are 5 . particularly useful for gene discovery, that is, for identifying, from genomic sequence, regions that function to encode genes, and in a particularly useful embodiment, for identifying regions that function to encode genes not 10 hitherto identified by expression-based or directed cloning and sequencing. In conjunction with verification using the novel single exon microarrays of the present invention, as further described below, the methods herein described become powerful gene discovery tools.

Accordingly, in a preferred embodiment of the present invention, process 25 is used to identify putative coding regions. Two preferred approaches in process 25 for identifying sequence that encodes putative genes are gene prediction and comparative sequence analysis.

Gene prediction can be performed using any of a number of algorithmic methods, embodied in one or more software programs, that identify open reading frames (ORFs) using a variety of heuristics, such as GRAIL, DICTION, and GENEFINDER. Comparative sequence analysis similarly can be 25 performed using any of a variety of known programs that identify regions with lower sequence variability.

As further described in Example 1, below, gene finding software programs yield a range of results. For the newly accessioned human genomic sequence input in 30 Example 1, for example, GRAIL identified the greatest percentage of genomic sequence as putative coding region, 2% of the data analyzed; GENEFINDER was second, calling 1%; and DICTION yielded the least putative coding region, with 0.8% of genomic sequence called as coding region.

Increased reliability can be obtained when

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consensus is required among several such methods. Although discussed herein particularly with respect to exon calling, consensus among methods will in general increase reliability of predicting other functions as well.

Thus, as indicated by query 26, sequence processing 25, optionally with preprocessing 24, can be repeated with a different method, with consensus among such iterations determined and reported in process 27.

Process 27 compares the several outputs for a

10 given input genomic sequence and identifies consensus among
the separately reported results. The consensus itself, as
well as the sequence meeting that consensus, is then stored
in process 29a, displayed in process 29b, and/or output to
process 300 for subsequent identification of a subset

15 thereof suitable for assay.

Multiple levels of consensus can be calculated and reported by process 27. For example, as further described in Example 1, infra, process 27 can report consensus as between all specific pairs of methods of gene prediction, as consensus among any one or more of the pairs of methods of gene prediction, or as among all of the gene prediction algorithms used. Thus, in Example 1, process 27 reported that GRAIL and GENEFINDER programs agreed on 0.7% of genomic sequence, that GRAIL and DICTION agreed on 0.5% of genomic sequence, and that the three programs together agreed on 0.25% of the data analyzed. Put another way, 0.25% of the genomic sequence was identified by all three of the programs as containing putative coding region.

Furthermore, consensus can be required among different approaches to identifying a chosen function.

For example, if the function desired to be identified is coding of protein sequence, and a first used approach to exon calling is gene prediction, the process can be repeated on the same input sequence, or subset thereof, with another approach, such as comparative

sequence analysis. In such a case, where comparative sequence analysis follows gene prediction, the comparison can be performed not only on genomic nucleic acid sequence, but additionally or alternatively can be performed on the 5 predicted amino acid sequence translated from the ORFs prior identified by the gene prediction approach.

Although shown as an iterative process, the multiple analyses required to achieve consensus can be done in series, in parallel, or some combination thereof.

Predicted functional sequence, optionally representing a consensus among a plurality of methods and approaches for determination thereof, is passed to process 300 for identification of a subset thereof for functional assay.

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In the preferred embodiment of the methods of the present invention, wherein the function sought to be identified is protein coding, process 300 is used to identify a subset thereof suitable for experimental verification by physical and/or bioinformatic approaches.

For example, putative ORFs identified in process 200 can be classified, or binned, bioinformatically into putative genes. This binning can be based inter alia upon consideration of the average number of exons/gene in the species chosen for analysis, upon density of exons that 25 have been called on the genomic sequence, and other empirical rules. Thereafter, one or more among the genespecific ORFs can be chosen for subsequent use in gene expression assay.

Where such subsequent gene expression assay uses 30 amplified nucleic acid, considerations such as desired amplicon length, primer synthesis requirements, putative exon length, sequence GC content, existence of possible secondary structure, and the like can be used to identify and select those ORFs that appear most likely successfully 35 to amplify. Where subsequent gene expression assay relies

upon nucleic acid hybridization, whether or not using amplified product, further considerations involving hybridization stringency can be applied to identify that subset of sequences that will most readily permit sequences specific discrimination at a chosen hybridization and wash stringency. One particular such consideration is avoidance of putative exons that span repetitive sequence; such sequence can hybridize spuriously to nonspecific message, reducing specific signal in the hybridization.

For bioinformatic assay, there are fewer constraints on the sequences that can be tested experimentally, and in this latter case therefore process 300 can output the entirety of the input sequence.

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The subset of sequences identified by process 300 as suitable for use in assay is then used in process 400 to create the physical and/or informational substrate for experimental verification of the predictions made in process 200, and thereafter to assay those substrates.

As mentioned, the methods of the present

invention are particularly useful for identifying potential coding regions within genomic sequence. In a preferred embodiment of process 400, therefore, the expression of the sequences predicted to encode protein is verified. The combination of the predictive and experimental methods

provides a powerful gene discovery engine.

Thus, in another aspect, the present invention provides methods and apparatus for verifying the expression of putative genes identified within genomic sequence. In particular, the invention provides a novel method of verifying gene expression in which expression of predicted ORFs is measured and confirmed using a novel type of nucleic acid microarray, the genome-derived single exon nucleic acid microarrays of the present invention.

Putative ORFs as predicted by a consensus of gene solding, particularly gene prediction, algorithms in

process 200, and as further identified as suitable by process 300, are amplified from genomic DNA using the polymerase chain reaction (PCR). Although PCR is conveniently used, other amplification approaches can also be used.

Amplification schemes can be designed to capture the entirety of each predicted ORF in an amplicon with minimal additional (that is, intronic or intergenic) sequence. Because ORFs predicted from human genomic sequence using the methods of the present invention differ in length, such an approach results in amplicons of varying length.

However, most predicted ORFs are shorter than 500 bp in length, and although amplicons of at least about 100 or 200 base pairs can be immobilized as probes on nucleic acid microarrays, early experimental results using the methods of the present invention have suggested that longer amplicons, at least about 400 or 500 base pairs, are more effective. Furthermore, certain advantages derive from application to the microarray of amplicons of defined size.

Therefore, amplification schemes can alternatively, and preferably, be designed to amplify regions of defined size, preferably at least about 300, 400 or 500 bp, centered about each predicted ORF. Such an approach results in a population of amplicons of limited size diversity, but that typically contain intronic and/or intergenic nucleic acid in addition to putative ORF.

Conversely, somewhat fewer than 10% of ORFs predicted from human genomic sequence according to the methods of the present invention exceed 500 bp in length. Portions of such extended ORFs, preferably at least about 300,400 or 500 bp in length, can be amplified. However, it has been discovered that the percentage success at amplifying pieces of such ORFs is low, and that such putative exons are more effectively amplified when larger

fragments, at least about 1000 or 1500 bp, and even as large as 2000 bp are amplified.

The putative ORFs selected in process 300 are
thus input into one or more primer design programs, such as
5 PRIMER3 (available online for use at
http://www-genome.wi.mit.edu/cgi-bin/primer/), with a goal
of amplifying at least about 500 base pairs of genomic
sequence centered within or about ORFs predicted to be no
more than about 500 bp, or at least about 1000 - 1500 bp of
genomic sequence for ORFs predicted to exceed 500 bp in
length, and the primers synthesized by standard techniques.
Primers with the requisite sequences can be purchased
commercially or synthesized by standard techniques.

Conveniently, a first predetermined sequence can

be added commonly to the ORF-specific 5' primer and a

second, typically different, predetermined sequence

commonly added to each 3' ORF-unique primer. This serves

to immortalize the amplicon, that is, serves to permit

further amplification of any amplicon using a single set of

primers complementary respectively to the common 5' and

common 3' sequence elements. The presence of these

"universal" priming sequences further facilitates later

sequence verification, providing a sequence common to all

amplicons at which to prime sequencing reactions. The

common 5' and 3' sequences further serve to add a cloning

site should any of the ORFs warrant further study.

Such predetermined sequence is usefully at least about 10, 12 or 15 nt in length, and usually does not exceed about 25 nt in length. The "universal" priming sequences used in the examples presented infra were each 16 nt long.

The genomic DNA to be used as substrate for amplification will come from the eukaryotic species from which the genomic sequence data had originally been obtained, or a closely related species, and can

conveniently be prepared by well known techniques from somatic or germline tissue or cultured cells of the organism. See, e.g., Short Protocols in Molecular Biology: A Compendium of Methods from Current Protocols in Molecular Biology, Ausubel et al. (eds.), 4th edition (April 1999), John Wiley & Sons (ISBN: 047132938X) and Maniatis et al., Molecular Cloning: A Laboratory Manual, 2nd edition (December 1989), Cold Spring Harbor Laboratory Press (ISBN: 0879693096). Many such prepared genomic DNAs are available commercially, with the human genomic DNAs additionally having certification of donor informed consent.

flanking putative coding regions in the amplicons could
potentially interfere with hybridizations during microarray experiments, we have found, surprisingly, that differential expression ratios are not significantly affected. Rather, the predominant effect of exon size is to alter the absolute signal intensity, rather than its ratio. Equally surprising, the art had suggested that single exon probes would not provide sufficient signal intensity for high stringency hybridization analyses; we find that such probes not only provide adequate signal, but have substantial advantages, as herein described.

After partial purification, as by size exclusion spin column, with or without confirmation as to amplicon quality as by gel electrophoresis, each amplicon (single exon probe) is disposed in an array upon a support substrate.

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Methods for creating microarrays by deposition and fixation of nucleic acids onto support substrates are well known in the art (Reviewed by Schena et al., see above).

Typically, the support substrate will be glass, although other materials, such as amorphous or crystalline

silicon or plastics. Such plastics include
polymethylacrylic, polyethylene, polypropylene,
polyacrylate, polymethylmethacrylate, polyvinylchloride,
polytetrafluoroethylene, polystyrene, polycarbonate,
polyacetal, polysulfone, celluloseacetate,
cellulosenitrate, nitrocellulose, or mixtures thereof, can
also be used. Typically, the support will be rectangular,
although other shapes, particularly circular disks and even
spheres, present certain advantages. Particularly

10 advantageous alternatives to glass slides as support substrates for array of nucleic acids are optical discs, as described in WO 98/12559.

The amplified nucleic acids can be attached covalently to a surface of the support substrate or, more typically, applied to a derivatized surface in a chaotropic agent that facilitates denaturation and adherence by presumed noncovalent interactions, or some combination thereof.

Robotic spotting devices useful for arraying

nucleic acids on support substrates can be constructed
using public domain specifications (The MGuide, version
2.0, http://cmgm.stanford.edu/pbrown/mguide/index.html), or
can conveniently be purchased from commercial sources
(MicroArray GenII Spotter and MicroArray GenIII Spotter,

Molecular Dynamics, Inc., Sunnyvale, CA). Spotting can
also be effected by printing methods, including those using
ink jet technology.

As is well known in the art, microarrays
typically also contain immobilized control nucleic acids.

For controls useful in providing measurements of background signal for the genome-derived single exon microarrays of the present invention, a plurality of E. coli genes can readily be used. As further described in Example 1, 16 or 32 E. coli genes suffice to provide a robust measure of background noise in such microarrays.

As is well known in the art, the amplified product disposed in arrays on a support substrate to create a nucleic acid microarray can consist entirely of natural nucleotides linked by phosphodiester bonds, or alternatively can include either nonnative nucleotides, alternative internucleotide linkages, or both, so long as complementary binding can be obtained in the hybridization. If enzymatic amplification is used to produce the immobilized probes, the amplifying enzyme will impose certain further constraints upon the types of nucleic acid analogs that can be generated.

Although particularly described herein as using high density microarrays constructed on planar substrates, the methods of the present invention for confirming the expression of ORFs predicted from genomic sequence can use any of the known types of microarrays, as herein defined, including lower density planar arrays, and microarrays on nonplanar, nonunitary, distributed substrates.

using hybridization to lower density arrays, such as those constructed on membranes, such as nitrocellulose, nylon, and positively-charged derivatized nylon membranes.

Further, gene expression can also be confirmed using nonplanar, bead-based microarrays such as are described in Brenner et al., Proc. Natl. Acad. Sci. USA 97(4):166501670 (2000); U.S. Patent No. 6,057,107; and U.S. Patent No. 5,736,330. In theory, a packed collection of such beads provides in aggregate a higher density of nucleic acid probe than can be achieved with spotting or lithography techniques on a single planar substrate.

Planar microarrays on solid substrates, however, provide certain useful advantages, including high throughput and compatibility with existing readers. For example, each standard microscope slide can include at least 1000, typically at least 2000, preferably 5000 and

upto 10,000 - 50,000 or more nucleic acid probes of discrete sequence. The number of sequences deposited will depend on their required application.

Each putative gene can be represented in the

array by a single predicted ORF. Alternatively, genes can
be represented by more than one predicted ORF. For
purposes of measuring differential splicing, more than one
predicted ORF will be provided for a putative gene. And as
is well known in the art, each probe of defined sequence,
representing a single predicted ORF, can be deposited in a
plurality of locations on a single microarray to provide
redundancy of signal.

The genome-derived single exon microarrays described above differ in several fundamental and advantageous ways from microarrays presently used in the gene expression art, including (1) those created by deposition of mRNA-derived nucleic acids, (2) those created by in situ synthesis of oligonucleotide probes, and (3) those constructed from yeast genomic DNA.

Most nucleic acid microarrays that are in use for study of eukaryotic gene expression have as immobilized probes nucleic acids that are derived — either directly or indirectly — from expressed message. As discussed above, it is common, for example, for such microarrays to be derived from cDNA/EST libraries, either from those previously described in the literature, see Lennon et al., or from the de novo construction of "problem specific" libraries targeted at a particular biological question, R.S. Thomas et al., Cancer Res. (in press). Such microarrays are herein collectively denominated "EST microarrays".

Such EST microarrays by definition can measure expression only of those genes found in EST libraries, shown herein to represent only a fraction of expressed

35 genes. Furthermore, such libraries — and thus microarrays

based thereupon - are biased by the tissue or cell type of message origin, by the expression levels of the respective genes within the tissues, and by the ability of the message successfully to have been reverse-transcribed and cloned.

Thus, as further discussed in Example 1, the methods of the present invention enable sequences that do not appear in EST or other expression databases to be determined - subsequently arrayed for expression measurements could not, therefore, have been represented as 10 probes on an EST microarray. And as further demonstrated in the examples, infra, the remaining population of genes identified from genomic sequence by the methods of the present invention - that is, the one third of sequences that had previously been accessioned in EST or other 15 expression databases — are biased toward genes with higher expression levels.

Representation of a message in an EST and/or cDNA library depends upon the successful reverse transcription, optionally but typically with subsequent successful 20 cloning, of the message. This introduces substantial bias into the population of probes available for arraying in EST microarrays.

In contrast, neither reverse transcription nor cloning is required to produce the probes arrayed on the 25 genome-derived single exon microarrays of the present invention. And although the ultimate deposition of a probe on the genome-derived single exon microarray of the present invention depends upon a successful amplification from genomic material, a priori knowledge of the sequence of the 30 desired amplicon affords greater opportunity to recover any given probe sequence recalcitrant to amplification than is afforded by the requirement for successful reverse transcription and cloning of unknown message in EST approaches.

Thus, the genome-derived single exon microarrays

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of the present invention present a far greater diversity of probes for measuring gene expression, with far less bias, than do EST microarrays presently used in the art.

As a further consequence of their ultimate origin 5 from expressed message, the probes in EST microarrays often contain poly-A (or complementary poly-T) stretches derived from the poly-A tail of mature mRNA. These homopolymeric stretches contribute to cross-hybridization, that is, to a spurious signal occasioned by hybridization to the 10 homopolymeric tail of a labeled cDNA that lacks sequence homology to the gene-specific portion of the probe.

In contrast, the probes arrayed in the genomederived single exon microarrays of the present invention lack homopolymeric stretches derived from message 15 polyadenylation, and thus can provide more specific signal. Typically, at least about 50, 60 or 75% of the probes on the genome-derived single exon microarrays of the present invention lack homopolymeric regions consisting of A or T,

where a homopolymeric region is defined for purposes herein 20 as stretches of 25 or more, typically 30 or more, identical nucleotides.

A further distinction, which also affects the specificity of hybridization, is occasioned by the typical derivation of EST microarray probes from cloned material. 25 Because much of the probe material disposed as probes on EST microarrays is excised or amplified from plasmid, phage, or phagemid vectors, EST microarrays typically include a fair amount of vector sequence, more so when the probes are amplified, rather than excised, from the vector.

In contrast, the vast majority of probes in the genome-derived single exon microarrays of the present invention contain no prokaryotic or bacteriophage vector sequence, having been amplified directly or indirectly from genomic DNA. Typically, therefore, at least about 50, 60, 35 70 or 80% or more of individual exon-including probes

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disposed on a genome-derived single exon microarray of the present invention lack vector sequence, and particularly lack sequences drawn from plasmids and bacteriophage. Preferably, at least about 85, 90 or more than 90% of exon-5 including probes in the genome-derived single exon microarray of the present invention lack vector sequence. With attention to removal of vector sequences through preprocessing 24, percentages of vector-free exon-including probes can be as high as 95 - 99%. The substantial absence 10 of vector sequence from the genome-derived single exon microarrays of the present invention results in greater specificity during hybridization, since spurious crosshybridization to a probe vector sequence is reduced.

As a further consequence of excision or 15 amplification of probes from vectors in construction of EST microarrays, the probes arrayed thereon often contain artificial sequence, derived from vector polylinker multiple cloning sites, at both 5' and 3' ends. The probes disposed upon the genome-derived single exon microarrays 20 need have no such artificial sequence appended thereto.

As mentioned above, however, the ORF-specific primers used to amplify putative ORFs can include artificial sequences, typically 5' to the ORF-specific primer sequence, useful for "universal" (that is, 25 independent of ORF sequence) priming of subsequent amplification or sequencing reactions. When such "universal" 5' and/or 3' priming sequences are appended to the amplification primers, the probes disposed upon the genome-derived single exon microarray will include 30 artificial sequence similar to that found in EST microarrays. However, the genome-derived single exon microarray of the present invention can be made without such sequences, and if so constructed, presents an even smaller amount of nonspecific sequence that would

35 contribute to nonspecific hybridization.

Yet another consequence of typical use of cloned material as probes in EST microarrays is that such microarrays contain probes that result from cloning artifacts, such as chimeric molecules containing coding region of two separate genes. Derived from genomic material, typically not thereafter cloned, the probes of the genome-derived single exon microarrays of the present invention lack such cloning artifacts, and thus provide greater specificity of signal in gene expression

A further consequence of the cloned origin of probes on many EST microarrays is that the individual probes often have disparate sizes, which can cause the optimal hybridization stringency to vary among probes on a single microarray. In contrast, as discussed above, the probes arrayed on the genome-derived single exon microarrays of the present invention can readily be designed to have a narrow distribution in sizes, with the range of probe sizes no greater than about 10% of the average size, typically no greater than about 5% of the average probe size.

Because of their origin from fully- or partiallyspliced message, probes disposed upon EST arrays will often
include multiple exons. The percentage of such exoninclude multiple exons. The percentage of such exonspanning probes in an EST microarray can be calculated, on
average, based upon the predicted number of exons/gene for
the given species and the average length of the immobilized
probes. For human genes, the near-complete sequence of
human chromosome 22, Dunham et al., Nature 402(6761):489-95

(1999), predicts that human genes average 5.5 exons/gene.
Even with probes of 200 - 500 bp, the vast majority of
human EST microarray probes include more than one exon.

In contrast, by virtue of their origin from algorithmically identified ORFs in genomic sequence, the probes in the genome-derived single exon microarrays of the

present invention can consist of individual exons. Thus, in contrast to EST microarrays, at least about 50, 60, 70, 75, 80, 85, 95 or 99% of probes deposited in the genomederived microarray of the present invention consist of, or 5 include, no more than one predicted ORF.

This provides the ability, not readily achieved using EST microarrays, to use the genome-derived single exon microarrays of the present invention to measure tissue-specific expression of individual exons, which in 10 turn allows differential splicing events to be detected and characterized, and in particular, allows the correlation of differential splicing to tissue-specific expression patterns.

Furthermore, the exons that are represented in 15 EST microarrays are often biased toward the 3' or 5' end of their respective genes, since sequencing strategies used for EST identification are so biased. In contrast, no such 3' or 5' bias necessarily inheres in the selection of exons for disposition on the genome-derived single exon microarrays of the present invention.

Conversely, the probes provided on the genomederived single exon microarrays of the present invention typically, but need not necessarily, include intronic and/or intergenic sequence that is absent from EST 25 microarrays, which are derived from mature mRNA. Typically, at least about 50, 60, 70, 80 or 90% of the exon-including probes on the genome-derived single exon microarrays of the present invention include sequence drawn from noncoding regions. As discussed above, the additional 30 presence of noncoding region does not significantly interfere with measurement of gene expression, and provides the additional opportunity to assay prespliced RNA, and thus measure such phenomena such as nuclear export control.

The genome-derived single exon microarrays of the 35 present invention are also quite different from in situ

synthesis microarrays, where probe size is severely constrained by inadequacies in the photolithographic synthesis process.

Typically, probes arrayed on in situ synthesis 5 microarrays are limited to a maximum of about 25 bp. As a well known consequence, hybridization to such chips must be performed at low stringency. In order, therefore, to achieve unambiguous sequence-specific hybridization results, the in situ synthesis microarray requires 10 substantial redundancy, with concomitant programmed arraying for each probe of probe analogues with altered (i.e., mismatched) sequence.

In contrast, the longer probe length of the genome-derived single exon microarrays of the present 15 invention allows much higher stringency hybridization and Typically, therefore, exon-including probes on the genome-derived single exon microarrays of the present invention average at least about 100, 200, 300, 400 or 500 bp in length. By obviating the need for substantial 20 probe redundancy, this approach permits a higher density of probes for discrete exons or genes to be arrayed on the microarrays of the present invention than can be achieved for in situ synthesis microarrays.

A further distinction is that the probes in in 25 situ synthesis microarrays typically are covalently linked to the substrate surface. In contrast, the probes disposed on the genome-derived microarray of the present invention typically are, but need not necessarily be, bound noncovalently to the substrate.

Furthermore, the short probe size on in situ microarrays causes large percentage differences in the melting temperature of probes hybridized to their complementary target sequence, and thus causes large percentage differences in the theoretically optimum 35 stringency across the array as a whole.

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In contrast, the larger probe size in the microarrays of the present invention create lower percentage differences in melting temperature across the range of arrayed probes.

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A further significant advantage of the microarrays of the present invention over in situ synthesized arrays is that the quality of each individual probe can be confirmed before deposition. In contrast, the quality of probes cannot be assessed on a probe-by-probe 10 basis for the in situ synthesized microarrays presently being used.

The genome-derived single exon microarrays of the present invention are also distinguished over, and present substantial benefits over, the genome-derived microarrays 15 from lower eukaryotes such as yeast. Lashkari et al., Proc. Natl. Acad. Sci. USA 94:13057-13062 (1997).

Only about 220 - 250 of the 6100 or so nuclear qenes in Saccharomyces cerevisiae - that is, only about 4 - 5% - have standard, spliceosomal, introns, Lopez et al., Nucl. Acids Res. 28:85-86 (2000); Spingola et al., RNA 5(2):221-34 (1999). Furthermore, the entire yeast genome has already been sequenced. These two facts permit the ready amplification and disposition of single-ORF amplicons on such microarray without the requirement for antecedent 25 use of gene prediction and/or comparative sequence analyses.

Thus, a significant aspect of the present invention is the ability to identify and to confirm expression of predicted coding regions in genomic sequence 30 drawn from eukaryotic organisms that have a higher percentage of genes having introns than do yeast such as Saccharomyces cerevisiae, particularly in genomic sequence drawn from eukaryotes in which at least about 10, 20 or 50% of protein-encoding genes have introns. In preferred embodiments, the methods and apparatus of the present 35

invention are used to identify and confirm expression of novel genes from genomic sequence of eukaryotes in which the average number of introns per gene is at least about one, two or three or more.

After the physical substrate is prepared, experimental verification of predicted function is performed.

5

In a preferred embodiment of the present invention, where the function sought to be identified in genomic sequence is protein coding, experimental verification is performed by measuring expression of the putative ORFs, typically through nucleic acid hybridization experiments, and in particularly preferred embodiments, through hybridization to genome-derived single exon microarrays prepared as above- described.

Expression is conveniently measured and expressed for each probe in the microarray as a ratio of the expression measured concurrently in a plurality of mRNA sources, according to techniques well known in the microarray art, Reviewed in Schena et al., and as further described in Example 2, below. The mRNA source for the reference against which specific expression is measured can be drawn from a homogeneous mRNA source, such as a single cultured cell-type, or alternatively can be heterogeneous, as from a pool of mRNA derived from multiple tissues and/or cell types, as further described in Example 2, infra.

Ausubel et al. and Maniatis et al., or purchased commercially. The mRNA is then typically reverse-transcribed in the presence of labeled nucleotides: the index source (that in which expression is desired to be measured) is reverse transcribed in the presence of nucleotides labeled with a first label, typically a fluorophore (fluorochrome; fluor; fluorescent dye); the reference source is reverse transcribed in the presence of

a second label, typically a fluorophore, typically fluorometrically-distinguishable from the first label. As further described in Example 2, infra, Cy3 and Cy5 dyes prove particularly useful in these methods. After partial purification of the index and reference targets, hybridization to the probe array is conducted according to standard techniques, typically under a coverslip.

After wash, microarrays are conveniently scanned using a commercial microarray scanning device, such as a 10 Gen3 Scanner (Molecular Dynamics, Sunnyvale, CA). Data on expression is then passed, with or without interim storage, to process 500, where the results for each probe are related to the original sequence.

Often, hybridization of target material to the

genome-derived single exon microarray will identify certain
of the probes thereon as of particular interest. Thus, it
is often desirable that the user be able readily to obtain
sufficient quantities of an individual probe, either for
subsequent arrayed deposition upon an additional support
substrate, often as part of a microarray having a plurality
of probes so identified, or alternatively or additionally
as a solitary solid-phase or solution-phase probe, for
further use.

Thus, in another aspect, the present invention

25 provides compositions and kits for the ready production of nucleic acids identical in sequence to, or substantially identical in sequence to, probes on the genome-derived single exon microarrays of the present invention.

In this aspect, a small quantity of each probe is disposed, typically without attachment to substrate, in a spatially-addressable ordered set, typically one per well of a microtiter dish. Although a 96 well microtiter plate can be used, greater efficiency is obtained using higher density arrays, such as are provided by microtiter plates having 384, 864, 1536, 3456, 6144, or 9600 wells, and

although microtiter plates having physical depressions (wells) are conveniently used, any device that permits addressable withdrawal of reagent from fluidlynoncommunicating areas can be used.

In this aspect of the invention, therefore, a . 5 fluidly noncommunicating addressable ordered set of individual probes, corresponding to those on a genomederived single exon microarray, is provided, with each probe in sufficient quantity to permit amplification, such 10 as by PCR. As earlier mentioned, the ORF-specific 5' primers used for genomic amplification can have a first common sequence added thereto, and the ORF-specific 3' primers used for genomic amplification can have a second, different, common sequence added thereto, thus permitting, in this preferred embodiment, the use of a single set of 5' and 3' primers to amplify any one of the probes from the amplifiable ordered set.

Each discrete amplifiable probe can also be packaged with amplification primers, solutes, buffers, 20 etc., and can be provided in dry (e.g., lyophilized) form or wet, in the latter case typically with addition of agents that retard evaporation.

In another aspect of the present invention, a genome-derived single-exon microarray is packaged together 25 with such an ordered set of amplifiable probes corresponding to the probes, or one or more subsets of probes, thereon. In alternative embodiments, the ordered set of amplifiable probes is packaged separately from the genome-derived single exon microarray.

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In some embodiments, the microarray and/or ordered probe set are further packaged with recordable media that provide probe identification and addressing information, and that can additionally contain annotation information, such as gene expression data. Such recordable 35 media can be packaged with the microarray, with the ordered

probe set, or with both.

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If the microarray is constructed on a substrate that incorporates recordable media, such as is described in international patent application no. WO 98/12559, then 5 separate packaging of the genome-derived single exon microarray and the bioinformatic information is not required.

The amount of amplifiable probe material should be sufficient to permit at least one amplification 10 sufficient for subsequent hybridization assay.

Although the use of high density genome-derived microarrays on solid planar substrates is presently a preferred approach for the physical confirmation and characterization of the expression of sequences predicted 15 to encode protein, other types of microarrays (as herein defined) can also be used.

Furthermore, as earlier mentioned, experimental verification of the function predicted from genomic sequence in process 200 can be bioinformatic, rather than, 20 or additional to, physical verification.

For example, where the function desired to be identified is protein coding, the predicted ORFs can be compared bioinformatically to sequences known or suspected of being expressed.

Thus, the sequences output from process 300 (or process 200), can be used to query expression databases, such as EST databases, SNP ("single nucleotide polymorphism") databases, known cDNA and mRNA sequences, SAGE ("serial analysis of gene expression") databases, and 30 more generalized sequence databases that allow query for expressed sequences. Such query can be done by any sequence query algorithm, such as BLAST ("basic local alignment search tool"). The results of such query including information on identical sequences and 35 information on nonidentical sequences that have diffuse or

focal regions of sequence homology to the query sequence can then be passed directly to process 500, or used to inform analyses subsequently undertaken in process 200, process 300, or process 400.

Experimental data, whether obtained by physical or bioinformatic assay in process 400, is passed to process 500 where it is usefully related to the sequence data itself, a process colloquially termed "annotation". Such annotation can be done using any technique that usefully 10 relates the functional information to the sequence, as, for example, by incorporating the functional data into the record itself, by linking records in a hierarchical or relational database, by linking to external databases, or by a combination thereof. Such database techniques are 15 well within the skill in the art.

The annotated sequence data can be stored locally, uploaded to genomic sequence database 100, and/or displayed 800.

The methods and apparatus of the present 20 invention rapidly produce functional information from genomic sequence. Coupled with the escalating pace at which sequence now accumulates, the rapid pace of sequence annotation produces a need for methods of displaying the information in meaningful ways.

FIG. 3 shows visual display 80 presenting a single genomic sequence annotated according to the present invention. Because of its nominal resemblance to artistic works of Piet Mondrian, visual display 80 is alternatively described herein as a "Mondrian".

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Each of the visual elements of display 80 is aligned with respect to the genomic sequence being annotated (hereinafter, the "annotated sequence"). Given the number of nucleotides typically represented in an annotated sequence, representation of individual 35 nucleotides would rarely be readable in hard copy output of WO 01/86003 PCT/US01/00665

display 80. Typically, therefore, the annotated sequence is schematized as rectangle 89, extending from the left border of display 80 to its right border. By convention herein, the left border of rectangle 89 represents the first nucleotide of the sequence and the right border of rectangle 89 represents the last nucleotide of the sequence.

As further discussed below, however, the Mondrian visual display of annotated sequence can serve as a convenient graphical user interface for computerized representation, analysis, and query of information stored electronically. For such use, the individual nucleotides can conveniently be linked to the X axis coordinate of rectangle 89. This permits the annotated sequence at any point within rectangle 89 readily to be viewed, either automatically — for example, by time-delayed appearance of a small overlaid window upon movement of a cursor or other pointer over rectangle 89 — or through user intervention, as by clicking a mouse or other pointing device at a point in rectangle 89.

Visual display 80 is generated after user specification of the genomic sequence to be displayed. Such specification can consist of or include an accession number for a single clone (e.g., a single BAC accessioned into GenBank), wherein the starting and stopping nucleotides are thus absolutely identified, or alternatively can consist of or include an anchor or fulcrum point about which a chosen range of sequence is anchored, thus providing relative endpoints for the sequence to be displayed. For example, the user can anchor such a range about a given chromosomal map location, gene name, or even a sequence returned by query for similarity or identity to an input query sequence. When visual display 80 is used as a graphical user interface to

last displayed nucleotide will typically be dynamically selectable, as by use of standard zooming and/or selection tools.

Field 81 of visual display 80 is used to present 5 the output from process 200, that is, to present the bioinformatic prediction of those sequences having the desired function within the genomic sequence. Functional sequences are typically indicated by at least one rectangle 83 (83a, 83b, 83c), the left and right borders of which 10 respectively indicate, by their X-axis coordinates, the starting and ending nucleotides of the region predicted to have function.

Where a single bioinformatic method or approach identifies a plurality of regions having the desired 15 function, a plurality of rectangles 83 is disposed horizontally in field 81. Where multiple methods and/or approaches are used to identify function, each such method and/or approach can be represented by its own series of horizontally disposed rectangles 83, each such horizontally 20 disposed series of rectangles offset vertically from those representing the results of the other methods and approaches.

Thus, rectangles 83a in FIG. 3 represent the functional predictions of a first method of a first 25 approach for predicting function, rectangles 83b represent the functional predictions of a second method and/or second approach for predicting that function, and rectangles 83c represent the predictions of a third method and/or approach.

Where the function desired to be identified is protein coding, field 81 is used to present the bioinformatic prediction of sequences encoding protein. For example, rectangles 83a can represent the results from GRAIL or GRAIL II, rectangles 83b can represent the results 35 from GENEFINDER, and rectangles 83c can represent the

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results from DICTION.

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Optionally, and preferably, rectangles 83 collectively representing predictions of a single method and/or approach are identically colored and/or textured, 5 and are distinguishable from the color and/or texture used for a different method and/or approach.

Alternatively, or in addition, the color, hue, density, or texture of rectangles 83 can be used further to report a measure of the bioinformatic reliability of the 10 prediction. For example, many gene prediction programs will report a measure of the reliability of prediction. Thus, increasing degrees of such reliability can be indicated, e.g., by increasing density of shading. Where display 80 is used as a graphical user interface, such 15 measures of reliability, and indeed all other results output by the program, can additionally or alternatively be made accessible through linkage from individual rectangles 83, as by time-delayed window ("tool tip" window), or by pointer (e.g., mouse)-activated link.

As earlier described, increased predictive reliability can be achieved by requiring consensus among methods and/or approaches to determining function. field 81 can include a horizontal series of rectangles 83 that indicate one or more degrees of consensus in 25 predictions of function.

Although FIG. 3 shows three series of horizontally disposed rectangles in field 81, display 80 can include as few as one such series of rectangles and as many as can discriminably be displayed, depending upon the 30 number of methods and/or approaches used to predict a given function.

Furthermore, field 81 can be used to show predictions of a plurality of different functions. However, the increased visual complexity occasioned by such 35 display makes more useful the ability of the user to select

a single function for display. When display 80 is used as a graphical user interface for computer query and analysis, such function can usefully be indicated and userselectable, as by a series of graphical buttons or tabs 5 (not shown in FIG. 3).

Rectangle 89 is shown in FIG. 3 as including interposed rectangle 84. Rectangle 84 represents the portion of annotated sequence for which predicted functional information has been assayed physically, with 10 the starting and ending nucleotides of the assayed material indicated by the X axis coordinates of the left and right borders of rectangle 84. Rectangle 85, with optional inclusive circles 86 (86a, 86b, and 86c) displays the results of such physical assay.

Although a single rectangle 84 is shown in FIG. 3, physical assay is not limited to just one region of annotated genomic sequence. It is expected that an increasing percentage of regions predicted to have function by process 200 will be assayed physically, and that display 20 80 will accordingly, for any given genomic sequence, have an increasing number of rectangles 84 and 85, representing an increased density of sequence annotation.

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Where the function desired to be identified is protein coding, rectangle 84 identifies the sequence of the 25 probe used to measure expression. In embodiments of the present invention where expression is measured using genome-derived single exon microarrays, rectangle 84 identifies the sequence included within the probe immobilized on the support surface of the microarray. As 30 noted supra, such probe will often include a small amount of additional, synthetic, material incorporated during amplification and designed to permit reamplification of the probe, which sequence is typically not shown in display 80.

Rectangle 87 is used to present the results of 35 bioinformatic assay of the genomic sequence. For example, WO 01/86003 PCT/US01/00665

where the function desired to be identified is protein coding, process 400 can include bioinformatic query of expression databases with the sequences predicted in process 200 to encode exons. And as earlier discussed, because bioinformatic assay presents fewer constraints than does physical assay, often the entire output of process 200 can be used for such assay, without further subsetting thereof by process 300. Therefore, rectangle 87 typically need not have separate indicators therein of regions submitted for bioinformatic assay; that is, rectangle 87 typically need not have regions therein analogous to rectangles 84 within rectangle 89.

Rectangle 87 as shown in FIG. 3 includes smaller rectangles 880 and 88. Rectangles 880 indicate regions

15 that returned a positive result in the bioinformatic assay, with rectangles 88 representing regions that did not return such positive results. Where the function desired to be predicted and displayed is protein coding, rectangles 880 indicate regions of the predicted exons that identify sequence with significant similarity in expression databases, such as EST, SNP, SAGE databases, with rectangles 88 indicating genes novel over those identified in existing expression data bases.

Rectangles 880 can further indicate, through color, shading, texture, or the like, additional information obtained from bioinformatic assay.

for example, where the function assayed and displayed is protein coding, the degree of shading of rectangles 880 can be used to represent the degree of sequence similarity found upon query of expression databases. The number of levels of discrimination can be as few as two (identity, and similarity, where similarity has a user-selectable lower threshold). Alternatively, as many different levels of discrimination can be indicated as can visually be discriminated.

Where display 80 is used as a graphical user interface, rectangles 880 can additionally provide links directly to the sequences identified by the query of expression databases, and/or statistical summaries thereof. 5 As with each of the precedingly-discussed uses of display 80 as a graphical user interface, it should be understood that the information accessed via display 80 need not be resident on the computer presenting such display, which often will be serving as a client, with the linked information resident on one or more remotely located servers.

Rectangle 85 displays the results of physical assay of the sequence delimited by its left and right borders.

Rectangle 85 can consist of a single rectangle, 15 thus indicating a single assay, or alternatively, and increasingly typically, will consist of a series of rectangles (85a, 85b, 85c) indicating separate physical assays of the same sequence.

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Where the function assayed is gene expression, and where gene expression is assayed as herein described using simultaneous two-color fluorescent detection of hybridization to genome-derived single exon microarrays, individual rectangles 85 can be colored to indicate the degree of expression relative to control. Conveniently, shades of green can be used to depict expression in the sample over control values, and shades of red used to depict expression less than control, corresponding to the spectra of the Cy3 and Cy5 dyes conventionally used for 30 respective labeling thereof. Additional functional information can be provided in the form of circles 86 (86a, 86b, 86c), where the diameter of the circle can be used to indicate expression intensity. As discussed infra, such relative expression (expression ratios) and absolute 35 expression (signal intensity) can be expressed using.

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normalized values.

Where display 80 is used as a graphical user interface, rectangle 85 can be used as a link to further information about the assay. For example, where the assay is one for gene expression, each rectangle 85 can be used to link to information about the source of the hybridized mRNA, the identity of the control, raw or processed data from the microarray scan, or the like.

gene prediction and gene expression for a hypothetical BAC, showing conventions used in the Examples presented infra.

BAC sequence ("Chip seq.") 89 is presented, with the physically assayed region thereof (corresponding to rectangle 84 in FIG. 3) shown in white. Algorithmic gene predictions are shown in field 81, with predictions by GRAIL shown, predictions by GENEFINDER, and predictions by DICTION shown. Within rectangle 87, regions of sequence that, when used to query expression databases, return identical or similar sequences ("EST hit") are shown as white rectangles (corresponding to rectangles 880 in FIG. 3), gray indicates low homology, and black indicates unknowns (where black and gray would correspond to rectangles 88 in FIG. 3).

Although FIGS. 3 and 4 show a single stretch of 25 sequence, uninterrupted from left to right, longer sequences are usefully represented by vertical stacking of such individual Mondrians, as shown in FIGS. 9 and 10.

Single Exon Probes Useful For Measuring Gene Expression

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The methods and apparatus of the present invention rapidly produce functional information from genomic sequence. Where the function to be identified is protein coding, the methods and apparatus of the present invention rapidly identify and confirm the expression of

portions of genomic sequence that function to encode protein. As a direct result, the methods and apparatus of the present invention rapidly yield large numbers of single-exon nucleic acid probes, the majority from previously unknown genes, each of which is useful for measuring and/or surveying expression of a specific gene in one or more tissues or cell types.

It is, therefore, another aspect of the present invention to provide genome-derived single exon nucleic acid probes useful for gene expression analysis, and particularly for gene expression analysis by microarray.

Using the methods and genome-derived single-exon microarrays of the present invention, we have for example readily identified a large number of unique ORFs from human genomic sequence. Using single exon probes that encompass these ORFs, we have demonstrated, through microarray hybridization analysis, the expression of 12,614 of these ORFs in lung.

As would immediately be appreciated by one of

20 skill in the art, each single exon probe having

demonstrable expression in lung is currently available for

use in measuring the level of its ORF's expression in lung.

Diseases of the lung are a significant cause of human morbidity and mortality. Increasingly, genetic

25 factors are being found that contribute to predisposition, onset, and/or aggressiveness of most, if not all, of these diseases; although causative mutations in single genes have been identified for some, these disorders are, for the most part, believed to have polygenic etiologies.

For example, asthma affects about 5% of the adult population in the United States, making it the seventh-ranking chronic condition. The worldwide prevalence of asthma has increased more than 30% since the late 1970s, mostly in areas of increased industrialization. The yearly economic costs (including both direct and indirect

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costs) are estimated at almost \$12 billion dollars. Asthma is also one of the most common reasons to seek medical treatment, with over 1.5 million emergency room visits, 500,000 hospitalizations and over 5,500 deaths each year.

5 Outpatient visits are estimated at 15 million per year.

Patients with asthma suffer shortness of breath accompanied by cough, wheezing, and anxiety. Common features of acute asthma attacks include a rapid respiratory rate, tachycardia, and pulsus paradoxus. Acute attacks can be triggered by environmental factors such as allergens, changes in temperature, and exercise; other acute exacerbations have no discernible precipitating cause. If asthma is not treated, it can be lifethreatening.

It is now well known that genetic factors predispose to asthma, but the exact nature of this genetic component is still imprecise.

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A 1986 human genetic study supported polygenic inheritance, Townley, et. al., J. Allergy Clin. Immun. 77: 101-107 (1986), and more recent studies have suggested that predisposing factors for asthma, if not the disease itself, are heritable. Slutsky, J. Clin. Pharmacol. 39: 246-51 (1999).

In one approach to elaborating the polygenic contributions to asthma, candidate genes have been suggested based upon presumed involvement in the physiologic processes known to contribute to the asthmatic state. Huss et al., Nurs. Clin. North Am. 35: 695-705 (2000).

In other studies, linkages and/or associations of genetic markers with atopy, bronchial hyperresponsiveness and/or asthma have been reported in candidate regions, including the 6p region, which includes both the HLA complex and the Tumor Necrosis Factor a gene (TNF-a), the liq region which includes the gene coding for the b sub-

unit of the high-affinity IgE receptor (FcE R1), the T-cell receptor a gene on chromosome 14, the 5q region bearing numerous candidate genes among which are the interleukin (IL-3, 4, 5, 9, 13) cluster and the b2-adrenergic receptor 5 gene, the 12q region containing the genes for interferongamma (IFNg), a mast cell growth factor (MGF), and an insulin-like growth factor (IGF1). The strongest of these linkages are associated with chromosomes 5 and 11. Other linkage regions have been reported on chromosomes 6, 7, 11, 12 and 13. Demenais, The European Network For Understanding Mechanisms of Severe Asthma, BIOMED 2 Program - European Commission (1998). Linkage regions have also been suggested on chromosomes 3, 16 and 14. Duffy, D., "Review of Molecular Genetics of 15 Asthma and Allergy",

(http://www2.qimr.edu.au/davidD/asthma6.html).

As another example, chronic obstructive pulmonary disease (COPD) is the fourth most common cause of death in the United States. Although cigarette smoking is the most 20 common cause of COPD, with smokers having a rate 10 to 30 times higher for developing emphysema than non-smokers, genetic factors are thought to play a significant role in susceptibility to COPD; indeed, only 15-20% of long-term cigarette smokers will develop COPD, suggesting that 25 genetic factors strongly affect outcome.

COPD includes both chronic bronchitis and emphysema, which share similar symptoms and frequently coexist. More than 16 million Americans have COPD at a cost currently estimated at \$30 billion dollars 30 each year. Chronic obstructive lung disease is characterized by a decline in lung function resulting in difficulty in breathing and physiological changes. severe COPD, patients breathe at very high lung volumes, having lost the lung's normal elastic recoil. Because COPD 35 does not affect the lung uniformly, ventilation and

perfusion distribution is impaired. In areas of the lung with low ventilation-perfusion ratios, arterial hypoxia results. This can further lead to pulmonary hypertension, right ventricular failure, and, ultimately, tissue ischemia, such as coronary artery disease.

The only confirmed genetic risk factor for COPD is the inherited deficiency of alpha 1-proteinase inhibitor (familial emphysema). Familial emphysema accounts for less than 5 percent of all cases of COPD, however, and familial clustering of lung function and COPD suggest the presence of other genetic risk factors. Luisetti et al., Mondaldi Arch. Chest Dis. 50:28-32 (1995); Khoury et. al., Genet Epidemiol. 2: 155-66 (1985).

Among such additional genetic factors are the

15 presence of the GC2 allele, which appears to exert a
protective effect against COPD. Horne et. al., Hum. Hered.
40: 173-76 (1990). Other suspected genetic involvement
includes genes coding for alphal-antichymotrypsin,
alpha2-macroglobulin, vitamin D-binding protein and blood
20 group antigens. Sandford et. al., Eur. Respir. J. 10: 138091 (1997). Finally, the form of the enzyme microsomal
epoxide hydrolase is correlated to susceptibility to
COPD. Smith et al., The Lancet 350: 630-33 (1997). It
remains uncertain, however, whether other loci contribute
25 to predisposition and aggressiveness of COPD.

As yet a further example, lung cancer is the leading cause of cancer death in both men and women in the United States. Although smoking is the primary risk factor, genetics plays a known role in susceptibility to these bronchogenic carcinomas.

The most common of the bronchogenic carcinomas is non-small cell lung cancer (NSCLC), which accounts for 75% of all primary lung cancers. NSCLCs are divided into adenocarcinomas, squamous cell carcinomas, and large cell carcinomas. Small cell lung cancer (SCLC) comprises 20% of

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primary lung cancers, and carcinoids make up 5%. Other rare forms of lung cancer (all totaling less than 1%) include lymphoma, carcinosarcoma, mucoepidermoid carcinoma, malignant fibrous histiocytoma, melanoma, sarcoma, and blastoma. Lung cancer is generally not associated with clinical symptoms until late in the course of the disease; this late diagnosis is likely to contribute to the poor 5-

premalignant changes are thought to include a
number of successive mutations in various growth regulation
genes. A chromosome 3p deletion, chromosome 9p deletion,
and p53 gene mutations have been identified in premalignant
lesions. Chromosomal abnormalities identified in both SCLC
and NSCLC include deletions involving chromosomes 3p, 5q,

15 9p, 11p, 13q, and 17p. Weston et. al., Proc. Nat. Acad.
Sci. 86: 5099-5103 (1989). For most of these regions,
suspected loci are tumor suppressor genes. Additionally,
transforming oncogenes such as Ki-ras, H-ras, N-ras, myc,
her2neu, c-kit, bcl-2 and cyclin D1 (prad) have also been
20 shown to be activated in certain types of bronchogenic
carcinomas. Perucho et. al., Cell 27: 467-76 (1981); Cecil
Textbook of Medicine, 21st ed. (2000).

Other contributing genetic loci have been
identified, including a deletion of the phosphatase and
tensin homolog (PTEN) at 10q23.3. Overexpression of PTEN
can inhibit invasion in lung cancer cells, and appears to
downregulate integrin alpha(6), laminin beta(3), heparinbinding epidermal growth factor-like growth factor,
urokinase-type plasminogen activator, myb protein B, and
Akt2. Hong et. al., Am. J. Respir. Cell Mol. Biol 23: 35563 (2000). In a recent study assessing the risk of lung
cancer from environmental tobacco smoke (ETS), women who
were homozygous null for glutathione S-transferase (GST)-1
(GSTM1) had a statistically significant greater risk of
developing lung cancer from ETS. Bennett et. al., J. Nat.

Cancer. Inst. 91: 2009-2014 (1999). The identified genetic factors are believed to be only a subset, however, of loci that contribute to disease.

As a still further example, the interstitial lung 5 diseases (ILDs) share certain pathogenic mechanisms and histopathologic features. ILDs comprise more than 100 disorders characterized by diffuse inflammation and scarring of the lung interstitium, derangement of the alveolar walls and loss of functional alveolar capillary 10 units. Symptoms include breathlessness, exercise intolerance, and progressive respiratory insufficiency. ILD is estimated to account for 100,000 hospital admissions each year.

Genetic factors are known to contribute to the 15 development of some types of ILD. Examples are familial idiopathic pulmonary fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease, Niemann-Pick disease and Hermansky-Pudlak syndrome. ILDs with unknown etiology include, e.g., sarcoidosis, pulmonary hemosiderosis, 20 pulmonary histiocytosis, lymphangioleiomyomatosis, pulmonary alveolar proteinosis, and nonspecific interstitial lung disease.

As an example of still undefined polygenic basis, the etiology of sarcoidosis remains enigmatic, but has long 25 been suspected to have a genetic component. Ethnic preponderance, familial clustering and multigenerational involvement all point towards hereditary susceptibility. Rybicki et. al., Clin. Chest Med. 18: 707-717 (1997). Some studies have shown an association between susceptibility to 30 sarcoidosis and HLA type. Nowack et al., Arch. Intern. Med. 147: 481-83 (1987); Ishihara et. al., Tissue Antigens 50: 650-53 (1997).

Other significant diseases of the lung are also believed to have a genetic, typically polygenic, etiologic 35 component. These diseases include, for example, Kartagener

syndrome, fibrocystic pulmonary dysplasia, primary ciliary dyskinesis, pulmonary hypertension, and hyaline membrane disease.

The human genome-derived single exon nucleic acid probes and microarrays of the present invention are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of human lung, particularly those diseases with polygenic etiology. With each of the single exon probes described herein shown to be expressed at detectable levels in human lung, and with about 2/3 of the probes identifying novel genes, the single exon microarrays of the present invention provide exceptionally high informational content for such studies.

For example, diagnosis (including differential diagnosis among clinically indistinguishable disorders, such as the ILDs), staging, and/or grading of a disease can be based upon the quantitative relatedness of a patient gene expression profile to one or more reference expression profiles known to be characteristic of a given lung disease, or to specific grades or stages thereof.

In one embodiment, the patient gene expression profile is generated by hybridizing nucleic acids obtained directly or indirectly from transcripts expressed in the patient's lung to the genome-derived single exon microarray of the present invention. Reference profiles are obtained similarly by hybridizing nucleic acids from individuals with known disease.

Methods for quantitatively relating gene expression profiles, without regard to the function of the protein encoded by the gene, are disclosed in WO 99/58720, incorporated herein by reference in its entirety.

In another approach, the genome-derived single exon probes and microarrays of the present invention can be used to interrogate genomic DNA, rather than pools of expressed message; this latter approach permits

predisposition to and/or prognosis of lung disease to be assessed through the massively parallel determination of altered copy number, deletion, or mutation in the patient's genome of exons known to be expressed in human lung. The 5 algorithms set forth in WO 99/58720 can be applied to such genomic profiles without regard to the function of the protein encoded by the interrogated gene.

The utility is specific to the probe; at sufficiently high hybridization stringency, which 10 stringencies are well known in the art - see Ausubel et al. and Maniatis et al. - each probe reports the level of expression of message specifically containing that ORF.

It should be appreciated, however, that the probes of the present invention, for which expression in 15 the lung has been demonstrated are useful for both measurement in the lung and for survey of expression in other tissues.

Significant among such advantages is the presence of probes for novel genes.

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As mentioned above and further detailed in Examples 1 and 2, the methods described enable ORFs which are not present in existing expression databases to be identified. And the fewer the number of tissues in which the ORF can be shown to be expressed, the more likely the ORF will prove to be part of a novel gene: as further discussed in Example 2, ORFs whose expression was measurable in only a single of the tested tissues were represented in existing expression databases at a rate of only 11%, whereas 36% of ORFs whose expression was 30 measurable in 9 tissues were present in existing expression databases, and fully 45% of those ORFs expressed in all ten tested tissues were present in existing expressed sequence databases.

Either as tools for measuring gene expression or 35 tools for surveying gene expression, the genome-derived

single exon probes of the present invention have significant advantages over the cDNA or EST-based probes that are currently available for achieving these utilities.

The genome-derived single exon probes of the

5 present invention are useful in constructing genome-derived single exon microarrays; the genome-derived single exon microarrays, in turn, are useful devices for measuring and for surveying gene expression in the human.

Gene expression analysis using microarrays —

10 conventionally using microarrays having probes derived from expressed message — is well-established as useful in the biological research arts (see Lockhart et al. Nature 405, 827-836).

Microarrays have been used to determine gene 15 expression profiles in cells in response to drug treatment (see, for example, Kaminski et al., "Global Analysis of Gene Expression in Pulmonary Fibrosis Reveals Distinct Programs Regulating Lung Inflammation and Fibrosis," Proc. Natl. Acad. Sci. USA 97(4):1778-83 (2000); Bartosiewicz et 20 al., "Development of a Toxicological Gene Array and Quantitative Assessment of This Technology," Arch. Biochem. Biophys. 376(1):66-73 (2000)), viral infection (see for example, Geiss et al., "Large-scale Monitoring of Host Cell Gene Expression During HIV-1 Infection Using cDNA 25 Microarrays, " Virology 266(1):8-16 (2000)) and during cell processes such as differentiation, senescence and apoptosis (see, for example, Shelton et al., "Microarray Analysis of Replicative Senescence, " Curr. Biol. 9(17):939-45 (1999); Voehringer et al., "Gene Microarray Identification of Redox 30 and Mitochondrial Elements That Control Resistance or Sensitivity to Apoptosis, " Proc. Natl. Acad. Sci. USA 97(6):2680-5 (2000)).

Microarrays have also been used to determine abnormal gene expression in diseased tissues (see, for example, Alon et al., "Broad Patterns of Gene Expression

Revealed by Clustering Analysis of Tumor and Normal Colon Tissues Probed by Oligonucleotide Arrays, " Proc. Natl. Acad. Sci. USA 96(12):6745-50 (1999); Perou et al., "Distinctive Gene Expression Patterns in Human Mammary 5 Epithelial Cells and Breast Cancers, Proc. Natl. Acad. Sci. USA 96(16):9212-7 (1999); Wang et al., "Identification of Genes Differentially Over-expressed in Lung Squamous Cell Carcinoma Using Combination of cDNA Subtraction and Microarray Analysis, " Oncogene 19(12):1519-28 (2000); 10 Whitney et al., "Analysis of Gene Expression in Multiple Sclerosis Lesions Using cDNA Microarrays, " Ann. Neurol. 46(3):425-8 (1999)), in drug discovery screens (see, for example, Scherf et al., "A Gene Expression Database for the Molecular Pharmacology of Cancer, " Nat. Genet. 24(3):236-44 15 (2000)) and in diagnosis to determine appropriate treatment strategies (see, for example, Sgroi et al., "In vivo Gene Expression Profile Analysis of Human Breast Cancer Progression, " Cancer Res. 59(22):5656-61 (1999)).

In microarray-based gene expression screens of 20 pharmacological drug candidates upon cells, each probe provides specific useful data. In particular, it should be appreciated that even those probes that show no change in expression are as informative as those that do change, serving, in essence, as negative controls.

For example, where gene expression analysis is 25 used to assess toxicity of chemical agents on cells, the failure of the agent to change a gene's expression level is evidence that the drug likely does not affect the pathway of which the gene's expressed protein is a part.

30 Analogously, where gene expression analysis is used to assess side effects of pharmacological agents - whether in lead compound discovery or in subsequent screening of lead compound derivatives - the inability of the agent to alter a gene's expression level is evidence that the drug does 35 not affect the pathway of which the gene's expressed

protein is a part.

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WO 99/58720 provides methods for quantifying the relatedness of a first and second gene expression profile and for ordering the relatedness of a plurality of gene 5 expression profiles. The methods so described permit useful information to be extracted from a greater percentage of the individual gene expression measurements from a microarray than methods previously used in the art.

Other uses of microarrays are described in 10 Gerhold et al., Trends Biochem. Sci. 24(5):168-173 (1999) and Zweiger, Trends Biotechnol. 17(11):429-436 (1999); Schena et al.

The invention particularly provides genomederived single-exon probes known to be expressed in lung.

The individual single exon probes can be provided in the form of substantially isolated and purified nucleic acid, typically, but not necessarily, in a quantity sufficient to perform a hybridization reaction.

Such nucleic acid can be in any form directly 20 hybridizable to the message that contains the probe's ORF, such as double stranded DNA, single-stranded DNA complementary to the message, single-stranded RNA complementary to the message, or chimeric DNA/RNA molecules so hybridizable. The nucleic acid can alternatively or 25 additionally include either nonnative nucleotides, alternative internucleotide linkages, or both, so long as complementary binding can be obtained. For example, probes can include phosphorothicates, methylphosphonates, morpholino analogs, and peptide nucleic acids (PNA), as are 30 described, for example, in U.S. Patent Nos. 5,142,047; 5,235,033; 5,166,315; 5,217,866; 5,184,444; 5,861,250.

Usefully, however, such probes are provided in a form and quantity suitable for amplification, where the amplified product is thereafter to be used in the 35 hybridization reactions that probe gene expression.

Typically, such probes are provided in a form and quantity suitable for amplification by PCR or by other well known amplification technique. One such technique additional to PCR is rolling circle amplification, as is described, inter alia, in U.S. Patent Nos. 5,854,033 and 5,714,320 and international patent publications WO 97/19193 and WO 00/15779. As is well understood, where the probes are to be provided in a form suitable for amplification, the range of nucleic acid analogues and/or internucleotide linkages will be constrained by the requirements and nature of the amplification enzyme.

Where the probe is to be provided in form suitable for amplification, the quantity need not be sufficient for direct hybridization for gene expression analysis, and need be sufficient only to function as an amplification template, typically at least about 1, 10 or 100 pg or more.

packaged with amplification primers, either in a single
composition that comprises probe template and primers, or
in a kit that comprises such primers separately packaged
therefrom. As earlier mentioned, the ORF-specific
5' primers used for genomic amplification can have a first
common sequence added thereto, and the ORF-specific 3'
primers used for genomic amplification can have a second,
different, common sequence added thereto, thus permitting,
in this embodiment, the use of a single set of 5' and 3'
primers to amplify any one of the probes. The probe
composition and/or kit can also include buffers, enzyme,
setc., required to effect amplification.

As mentioned earlier, when intended for use on a genome-derived single exon microarray of the present invention, the genome-derived single exon probes of the present invention will typically average at least about 100, 200, 300, 400 or 500 bp in length, including (and

typically, but not necessarily centered about) the ORF. Furthermore, when intended for use on a genome-derived single exon microarray of the present invention, the genome-derived single exon probes of the present invention 5 will typically not contain a detectable label.

When intended for use in solution phase hybridization, however - that is, for use in a hybridization reaction in which the probe is not first bound to a support substrate (although the target may 10 indeed be so bound) - length constraints that are imposed in microarray-based hybridization approaches will be relaxed, and such probes will typically be labeled.

In such case, the only functional constraint that dictates the minimum size of such probe is that each such 15 probe must be capable of specifically identifying in a hybridization reaction the exon from which it is drawn. theory, a probe of as little as 17 nucleotides is capable of uniquely identifying its cognate sequence in the human genome. For hybridization to expressed message - a subset 20 of target sequence that is much reduced in complexity as compared to genomic sequence - even fewer nucleotides are required for specificity.

Therefore, the probes of the present invention can include as few as 20, 25 or 50 bp or ORF, or more. In 25 particular embodiments, the ORF sequences are given in SEQ ID NOS. 12,615 - 25,001, respectively, for probe SEQ ID NOS. 1 - 12,614. The minimum amount of ORF required to be included in the probe of the present invention in order to provide specific signal in either solution phase or 30 microarray-based hybridizations can readily be determined for each of ORF SEQ ID NOS. 12,615 - 25,001 individually by routine experimentation using standard high stringency conditions.

Such high stringency conditions are described, 35 inter alia, in Ausubel et al. and Maniatis et al. For

microarray-based hybridization, standard high stringency conditions can usefully be 50% formamide, 5X SSC, 0.2 $\mu g/\mu l$ poly(dA), 0.2 µg/µl human cot1 DNA, and 0.5 % SDS, in a humid oven at 42°C overnight, followed by successive washes 5 of the microarray in 1% SSC, 0.2% SDS at 55°C for 5 minutes, and then 0.1X SSC, 0.2% SDS, at 55°C for 20 minutes. For solution phase hybridization, standard high stringency conditions can usefully be aqueous hybridization at 65°C in 6X SSC. Lower stringency conditions, suitable 10 for cross-hybridization to mRNA encoding structurally- and functionally-related proteins, can usefully be the same as the high stringency conditions but with reduction in temperature for hybridization and washing to room temperature (approximately 25°C).

When intended for use in solution phase hybridization, the maximum size of the single exon probes of the present invention is dictated by the proximity of other expressed exons in genomic DNA: although each single exon probe can include intergenic and/or intronic material 20 contiguous to the ORF in the human genome, each probe of the present invention will include portions of only one expressed exon.

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Thus, each single exon probe will include no more than about 25 kb of contiguous genomic sequence, more 25 typically no more than about 20 kb of contiguous genomic sequence, more usually no more than about 15 kb, even more usually no more than about 10 kb. Usually, probes that are maximally about 5 kb will be used, more typically no more than about 3 kb.

It will be appreciated that the Sequence Listing appended hereto presents, by convention, only that strand of the probe and ORF sequence that can be directly translated reading from 5' to 3' end. As would be well understood by one of skill in the art, single stranded 35 probes must be complementary in sequence to the ORF as

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present in an mRNA; it is well within the skill in the art to determine such complementary sequence. It will further be understood that double stranded probes can be used in both solution-phase hybridization and microarray-based hybridization if suitably denatured.

Thus, it is an aspect of the present invention to provide single-stranded nucleic acid probes that have sequence complementary to those described herein above and below, and double-stranded probes one strand of which has sequence complementary to the probes described herein.

The probes can, but need not, contain intergenic and/or intronic material that flanks the ORF, on one or both sides, in the same linear relationship to the ORF that the intergenic and/or intronic material bears to the ORF in genomic DNA. The probes do not, however, contain nucleic acid derived from more than one expressed ORF.

And when intended for use in solution hybridization, the probes of the present invention can usefully have detectable labels. Nucleic acid labels are well known in the art, and include, inter alia, radioactive labels, such as ³H, ³²P, ³³P, ³⁵S, ¹²⁵I, ¹³¹I; fluorescent labels, such as Cy3, Cy5, Cy5.5, Cy7, SYBR®

Green and other labels described in Haugland,

Handbook of Fluorescent Probes and Research Chemicals, 7th

25 ed., Molecular Probes Inc., Eugene, OR (2000), or

fluorescence resonance energy transfer tandem conjugates
thereof; labels suitable for chemiluminescent and/or
enhanced chemiluminescent detection; labels suitable for
ESR and NMR detection; and labels that include one member

30 of a specific binding pair, such as biotin, digoxigenin, or
the like.

The probes, either in quantity sufficient for hybridization or sufficient for amplification, can be provided in individual vials or containers.

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Alternatively, such probes can usefully be

packaged as a plurality of such individual genome-derived single exon probes.

When provided as a collection of plural individual probes, the probes are typically made available in amplifiable form in a spatially-addressable ordered set, typically one per well of a microtiter dish. Although a 96 well microtiter plate can be used, greater efficiency is obtained using higher density arrays.

If, as earlier mentioned, the ORF-specific

5' primers used for genomic amplification had a first
common sequence added thereto, and the ORF-specific 3'
primers used for genomic amplification had a second,
different, common sequence added thereto, a single set of
5' and 3' primers can be used to amplify all of the probes
from the amplifiable ordered set.

Such collections of genome-derived single exon probes can usefully include a plurality of probes chosen for the common attribute of expression in the human lung.

In such defined subsets, typically at least 50, 20 60, 75, 80, 85, 90 or 95% or more of the probes will be chosen by their expression in the defined tissue or cell type.

The single exon probes of the present invention, as well as fragments of the single exon probes comprising selectively hybridizable portions of the probe ORF, can be used to obtain the full length cDNA that includes the ORF by (i) screening of cDNA libraries; (ii) rapid amplification of cDNA ends ("RACE"); or (iii) other conventional means, as are described, inter alia, in Ausubel et al. and Maniatis et al.

It is another aspect of the present invention to provide genome-derived single exon nucleic acid microarrays useful for gene expression analysis, where the term "microarray" has the meaning given in the definitional section of this description, supra.

The invention particularly provides genomederived single-exon nucleic acid microarrays comprising a plurality of probes known to be expressed in human lung. In preferred embodiments, the present invention provides 5 human genome-derived single exon microarrays comprising a plurality of probes drawn from the group consisting of SEQ ID NOS.: 1 - 12,614.

When used for gene expression analysis, the genome-derived single exon microarrays provide greater 10 physical informational density than do the genome-derived single exon microarrays that have lower percentages of probes known to be expressed commonly in the tested tissue. At a fixed probe density, for example, a given microarray surface area of the defined subset genome-derived single 15 exon microarray can yield a greater number of expression measurements. Alternatively, at a given probe density, the same number of expression measurements can be obtained from a smaller substrate surface area. Alternatively, at a fixed probe density and fixed surface area, probes can be 20 provided redundantly, providing greater reliability in signal measurement for any given probe. Furthermore, with a higher percentage of probes known to be expressed in the assayed tissue, the dynamic range of the detection means can be adjusted to reveal finer levels discrimination among 25 the levels of expression.

Although particularly described with respect to their utility as probes of gene expression, particularly as probes to be included on a genome-derived single exon microarray, each of the nucleic acids having SEQ ID NOS.: 1 30 - 12,614 contains an open-reading frame, set forth respectively in SEQ ID NOS.: 12,615 - 25,001, that encodes a protein domain. Thus, each of SEQ ID NOS. 1 - 12,614 can be used, or that portion thereof in SEQ ID NOS. 12,615 -25,001 used, to express a protein domain by standard in 35 vitro recombinant techniques. See Ausubel et al. and

Maniatis et al.

Additionally, kits are available commercially that readily permit such nucleic acids to be expressed as protein in bacterial cells, insect cells, or mammalian 5 cells, as desired (e.g., HAT Protein Expression & Purification System, ClonTech Laboratories, Palo Alto, CA; Adeno-X™ Expression System, ClonTech Laboratories, Palo Alto, CA; Protein Fusion & Purification (pMAL™) System, New England Biolabs, Beverley, MA)

Furthermore, shorter peptides can be chemically synthesized using commercial peptide synthesizing equipment 10 and well known techniques. Procedures are described, inter alia, in Chan et al. (eds.), Fmoc Solid Phase Peptide Synthesis: A Practical Approach (Practical Approach Series, 15 (Paper)), Oxford Univ. Press (March 2000) (ISBN: 0199637245); Jones, Amino Acid and Peptide Synthesis (Oxford Chemistry Primers, No 7) , Oxford Univ. Press (August 1992) (ISBN: 0198556683); and Bodanszky, Principles of Peptide Synthesis (Springer Laboratory), Springer Verlag (December 1993) (ISBN: 0387564314). 20

It is, therefore, another aspect of the invention to provide peptides comprising an amino acid sequence translated from SEQ ID NOS.: 12,615 - 25,001. Such amino acid sequences are set out in SEQ ID NOS: 25,002 - 37,012. 25 Any such recombinantly-expressed or synthesized peptide of at least 8, and preferably at least about 15, amino acids, can be conjugated to a carrier protein and used to generate antibody that recognizes the peptide. Thus, it is a further aspect of the invention to provide peptides that 30 have at least 8, preferably at least 15, consecutive amino acids.

The following examples are offered by way of illustration and not by way of limitation.

Preparation of Single Exon Microarrays from ORFs Predicted in Human Genomic Sequence

5 Bioinformatics Results

All human BAC sequences in fewer than 10 pieces that had been accessioned in a five month period immediately preceding this study were downloaded from GenBank. This corresponds to ~2200 clones, totaling ~350 10 MB of sequence, or approximately 10% of the human genome.

After masking repetitive elements using the program CROSS_MATCH, the sequence was analyzed for open reading frames using three separate gene finding programs. The three programs predict genes using independent 15 algorithmic methods developed on independent training sets: GRAIL uses a neural network, GENEFINDER uses a hidden Markoff model, and DICTION, a program proprietary to Genetics Institute, operates according to a different heuristic. The results of all three programs were used to 20 create a prediction matrix across the segment of genomic

The three gene finding programs yielded a range DNA. of results. GRAIL identified the greatest percentage of genomic sequence as putative coding region, 2% of the data 25 analyzed. GENEFINDER was second, calling 1%, and DICTION yielded the least putative coding region, with 0.8% of genomic sequence called as coding region.

The consensus data were as follows. GRAIL and GENEFINDER agreed on 0.7% of genomic sequence, GRAIL and 30 DICTION agreed on 0.5% of genomic sequence, and the three programs together agreed on 0.25% of the data analyzed. That is, 0.25% of the genomic sequence was identified by all three of the programs as containing putative coding region.

ORFs predicted by any two of the three programs

("consensus ORFs") were assorted into "gene bins" using two criteria: (1) any 7 consecutive exons within a 25 kb window were placed together in a bin as likely contributing to a single gene, and (2) all ORFs within a 25 kb window were 5 placed together in a bin as likely contributing to a single gene if fewer than 7 exons were found within the 25 kb window.

PCR

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The largest ORF from each gene bin that did not span repetitive sequence was then chosen for amplification, 10 as were all consensus ORFs longer than 500 bp. This method approximated one exon per gene; however, a number of genes were found to be represented by multiple elements.

Previously, we had determined that DNA fragments fewer than 250 bp in length do not bind well to the aminomodified glass surface of the slides used as support substrate for construction of microarrays; therefore, amplicons were designed in the present experiments to 20 approximate 500 bp in length.

Accordingly, after selecting the largest ORF per gene bin, a 500 bp fragment of sequence centered on the ORF was passed to the primer picking software, PRIMER3 (available online for use at

25 http://www-genome.wi.mit.edu/cgi-bin/primer/). A first additional sequence was commonly added to each ORF-unique 5' primer, and a second, different, additional sequence was commonly added to each ORF-unique 3' primer, to permit subsequent reamplification of the amplicon using a single 30 set of "universal" 5' and 3' primers, thus immortalizing. The addition of universal priming sequences the amplicon. also facilitates sequence verification, and can be used to add a cloning site should some ORFs be found to warrant further study.

The ORFs were then PCR amplified from genomic

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DNA, verified on agarose gels, and sequenced using the universal primers to validate the identity of the amplicom to be spotted in the microarray.

Primers were supplied by Operon Technologies

(Alameda, CA). PCR amplification was performed by standard techniques using human genomic DNA (Clontech, Palo Alto, CA) as template. Each PCR product was verified by SYBR® green (Molecular Probes, Inc., Eugene, OR) staining of agarose gels, with subsequent imaging by Fluorimager

(Molecular Dynamics, Inc., Sunnyvale, CA). PCR amplification was classified as successful if a single band appeared.

The success rate for amplifying ORFs of interest directly from genomic DNA using PCR was approximately 75%.

FIG. 5 graphs the distribution of predicted ORF (exon) length and distribution of amplified PCR products, with ORF length shown in red and PCR product length shown in blue (which may appear black in the figure). Although the range of ORF sizes is readily seen to extend to beyond 900 bp, the mean predicted exon size was only 229 bp, with a median size of 150 bp (n=9498). With an average amplicon size of 475 ± 25 bp, approximately 50% of the average PCR amplification product contained predicted coding region, with the remaining 50% of the amplicon containing either intron, intergenic sequence, or both.

Using a strategy predicated on amplifying about 500 bp, it was found that long exons had a higher PCR failure rate. To address this, the bioinformatics process was adjusted to amplify 1000, 1500 or 2000 bp fragments from exons larger than 500 bp. This improved the rate of successful amplification of exons exceeding 500 bp, constituting about 9.2% of the exons predicted by the gene finding algorithms.

Approximately 75% of the probes disposed on the array (90% of those that successfully PCR amplified) were

sequence-verified by sequencing in both the forward and reverse direction using MegaBACE sequencer (Molecular Dynamics, Inc., Sunnyvale, CA), universal primers, and standard protocols.

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some genomic clones (BACs) yielded very poor PCR and sequencing results. The reasons for this are unclear, but may be related to the quality of early draft sequence or the inclusion of vector and host contamination in some submitted sequence data.

10 Although the intronic and intergenic material flanking coding regions could theoretically interfere with hybridization during microarray experiments, subsequent empirical results demonstrated that differential expression ratios were not significantly affected by the presence of noncoding sequence. The variation in exon size was similarly found not to affect differential expression ratios significantly; however, variation in exon size was observed to affect the absolute signal intensity (data not shown).

20 The 350 MB of genomic DNA was, by the abovedescribed process, reduced to 9750 discrete probes, which
were spotted in duplicate onto glass slides using
commercially available instrumentation (MicroArray GenII
Spotter and/or MicroArray GenIII Spotter, Molecular

25 Dynamics, Inc., Sunnyvale, CA). Each slide additionally
included either 16 or 32 E. coli genes, the average
hybridization signal of which was used as a measure of
background biological noise.

Each of the probe sequences was BLASTed against the human EST data set, the NR data set, and SwissProt GenBank (May 7, 1999 release 2.0.9).

One third of the probe sequences (as amplified)

produced an exact match (BLAST Expect ("E") values less
than 1 e⁻¹⁰⁰) to either an EST (20% of sequences) or a known

mRNA (13% of sequences). A further 22% of the probe

sequences showed some homology to a known EST or mRNA (BLAST E values from 1 e⁻⁵ to 1 e⁻⁹⁹). The remaining 45% of the probe sequences showed no significant sequence homology to any expressed, or potentially expressed, sequences present in public databases.

All of the probe sequences (as amplified) were then analyzed for protein similarities with the SwissProt database using BLASTX, Gish et al., Nature Genet. 3:266 (1993). The predicted functional breakdowns of the 2/3 of probes identical or homologous to known sequences are presented in Table 1.

Table 1

Table 1			
Function	of Predic	ted ORFs 1	As Deduced From Comparative
Sequence	Analysis	•	
Total	V6 chip	V7 chip	Function Predicted from Comparative Sequence
			Analysis
211	96	115	Receptor
120	43	77	Zinc Finger
30	11	19	Homeobox
25	9	16	Transcription Factor
17	11	7	Transcription
118	57	61	Structural
95	39	56	Kinase
36	18	18	Phosphatase
83	31	52	Ribosomal
45	19	26	Transport
21	17	14	Growth Factor
17	12	5	Cytochrome
50	33	17	Channel

As can be seen, the two most common types of

genes were transcription factors and receptors, making up 2.2% and 1.8% of the arrayed elements, respectively.

5 EXAMPLE 2

Gene Expression Measurements From Genome-Derived Single Exon Microarrays

10 The two genome-derived single exon microarrays prepared according to Example 1 were hybridized in a series of simultaneous two-color fluorescence experiments to (1) Cy3-labeled cDNA synthesized from message drawn individually from each of brain, heart, liver, fetal liver, placenta, lung, bone marrow, HeLa, BT 474, or HBL 100 cells, and (2) Cy5-labeled cDNA prepared from message pooled from all ten tissues and cell types, as a control in each of the measurements. Hybridization and scanning were carried out using standard protocols and Molecular Dynamics equipment.

Briefly, mRNA samples were bought from commercial sources (Clontech, Palo Alto, CA and Amersham Pharmacia Biotech (APB)). Cy3-dCTP and Cy5-dCTP (both from APB) were incorporated during separate reverse transcriptions of 1 µg of polyA+ mRNA performed using 1 µg oligo(dT)12-18 primer and 2 µg random 9mer primers as follows. After heating to 70°C, the RNA:primer mixture was snap cooled on ice. After snap cooling on ice, added to the RNA to the stated final concentration was: 1X Superscript II buffer, 0.01 M DTT, 100µM dATP, 100 µM dGTP, 100 µM dTTP, 50 µM dCTP, 50 µM Cy3-dCTP or Cy5-dCTP 50 µM, and 200 U Superscript II enzyme. The reaction was incubated for 2 hours at 42°C. After 2 hours, the first strand cDNA was isolated by adding 1 U Ribonuclease H, and incubating for 30 minutes at 37°C.

column, increasing the number of ethanol washes to 5.

Probe was eluted using 10 mM Tris pH 8.5.

Using a spectrophotometer, probes were measured for dye incorporation. Volumes of both Cy3 and Cy5 cDNA corresponding to 50 pmoles of each dye were then dried in a Speedvac, resuspended in 30 µl hybridization solution containing 50% formamide, 5X SSC, 0.2 µg/µl poly(dA), 0.2 µg/µl human cotl DNA, and 0.5% SDS.

Hybridizations were carried out under a

10 coverslip, with the array placed in a humid oven at 42°C

overnight. Before scanning, slides were washed in 1X SSC,

0.2% SDS at 55°C for 5 minutes, followed by 0.1X SSC, 0.2%

SDS, at 55°C for 20 minutes. Slides were briefly dipped in

water and dried thoroughly under a gentle stream of

15 nitrogen.

Slides were scanned using a Molecular Dynamics Gen3 scanner, as described. Schena (ed.), Microarray Biochip: Tools and Technology, Eaton Publishing Company/BioTechniques Books Division (2000) (ISBN:

Although the use of pooled cDNA as a reference permitted the survey of a large number of tissues, it attenuates the measurement of relative gene expression, since every highly expressed gene in the tissue/cell typespecific fluorescence channel will be present to a level of at least 10% in the control channel. Because of this fact, both signal and expression ratios (the latter hereinafter, "expression" or "relative expression") for each probe were normalized using the average ratio or average signal, respectively, as measured across the whole slide.

Data were accepted for further analysis only when signal was at least three times greater than biological noise, the latter defined by the average signal produced by the E. coli control genes.

The relative expression signal for these probes

was then plotted as function of tissue or cell type, and is presented in FIG. 6.

FIG. 6 shows the distribution of expression across a panel of ten tissues. The graph shows the number of sequence-verified products that were either not expressed ("0"), expressed in one or more but not all tested tissues ("1" - "9"), and expressed in all tissues tested ("10").

Of 9999 arrayed elements on the two microarrays

(including positive and negative controls and "failed"

products), 2353 (51%) were expressed in at least one tissue

or cell type. Of the gene elements showing significant

signal — where expression was scored as "significant" if

the normalized Cy3 signal was greater than 1, representing

signal 5-fold over biological noise (0.2) — 39% (991) were

expressed in all 10 tissues. The next most common class

(15%) consisted of gene elements expressed in only a single

tissue.

The genes expressed in a single tissue were 20 further analyzed, and the results of the analyses are compiled in FIG. 7.

FIG. 7A is a matrix presenting the expression of all verified sequences that showed expression greater than 3 in at least one tissue. Each clone is represented by a column in the matrix. Each of the 10 tissues assayed is represented by a separate row in the matrix, and relative expression of a clone in that tissue is indicated at the respective node by intensity of green shading, with the intensity legend shown in panel B. The top row of the matrix ("EST Hit") contains "bioinformatic" rather than "physical" expression data — that is, presents the results returned by query of EST, NR and SwissProt databases using the probe sequence. The legend for "bioinformatic expression" (i.e., degree of homology returned) is presented in panel C. Briefly, white is known, black is

novel, with gray depicting nonidentical with significant homology (white: E values < 1e-100; gray: E values from 1e-05 to 1e-99; black: E values > 1e-05).

As FIG. 7 readily shows, heart and brain were demonstrated to have the greatest numbers of genes that were shown to be uniquely expressed in the respective tissue. In brain, 200 uniquely expressed genes were identified; in heart, 150. The remaining tissues gave the following figures for uniquely expressed genes: liver, 100; lung, 70; fetal liver, 150; bone marrow, 75; placenta, 100; HeLa, 50; HBL, 100; and BT474, 50.

"novel" genes among those that were up-regulated in only one tissue, as compared with those that were down-regulated in only one tissue. In fact, it was found that ORFs whose expression was measurable in only a single of the tested tissues were represented in sequencing databases at a rate of only 11%, whereas 36% of the ORFs whose expression was measurable in 9 of the tissues were present in public databases. As for those ORFs expressed in all ten tissues, fully 45% were present in existing expressed sequence databases. These results are not unexpected, since genes expressed in a greater number of tissues have a higher likelihood of being, and thus of having been, discovered by EST approaches.

Comparison of Signal from Known and Unknown Genes

The normalized signal of the genes found to have high homology to genes present in the GenBank human EST database were compared to the normalized signal of those genes not found in the GenBank human EST database. The data are shown in FIG. 8.

FIG. 8 shows the normalized Cy3 signal intensity for all sequence-verified products with a BLAST Expect

("E") value of greater than 1e-30 (designated "unknown")

upon query of existing EST, NR and SwissProt databases, and shows in blue the normalized Cy3 signal intensity for all sequence-verified products with a BLAST Expect value of less than 1e-30 ("known"). Note that biological background noise has an averaged normalized Cy3 signal intensity of 0.2.

As expected, the most highly expressed of the ORFs were "known" genes. This is not surprising, since very high signal intensity correlates with very commonly-expressed genes, which have a higher likelihood of being found by EST sequence.

However, a significant point is that a large number of even the high expressers were "unknown". Since the genomic approach used to identify genes and to confirm their expression does not bias exons toward either the 3' or 5' end of a gene, many of these high expression genes will not have been detected in an end-sequenced cDNA library.

The significant point is that presence of the gene in an EST database is not a prerequisite for incorporation into a genome-derived microarray, and further, that arraying such "unknown" exons can help to assign function to as-yet undiscovered genes.

25 Verification of Gene Expression

To ascertain the validity of the approach described above to identify genes from raw genomic sequence, expression of two of the probes was assayed using reverse transcriptase polymerase chain reaction (RT PCR) and northern blot analysis.

Two microarray probes were selected on the basis of exon size, prior sequencing success, and tissue-specific gene expression patterns as measured by the microarray experiments. The primers originally used to amplify the two respective ORFs from genomic DNA were used in RT PCR

against a panel of tissue-specific cDNAs (Rapid-Scan gene expression panel 24 human cDNAs) (OriGene Technologies, Inc., Rockville, MD).

Sequence AL079300_1 was shown by microarray

5 hybridization to be present in cardiac tissue, and sequence
AL031734_1 was shown by microarray experiment to be present
in placental tissue (data not shown). RT-PCR on these two
sequences confirmed the tissue-specific gene expression as
measured by microarrays, as ascertained by the presence of
10 a correctly sized PCR product from the respective tissue
type cDNAs.

Clearly, all microarray results cannot, and indeed should not, be confirmed by independent assay methods, or the high throughput, highly parallel advantages of microarray hybridization assays will be lost. However, in addition to the two RT-PCR results presented above, the observation that 1/3 of the arrayed genes exist in expression databases provides powerful confirmation of the power of our methodology — which combines bioinformatic prediction with expression confirmation using genomederived single exon microarrays — to identify novel genes from raw genomic data.

To verify that the approach further provides correct characterization of the expression patterns of the identified genes, a detailed analysis was performed of the microarrayed sequences that showed high signal in brain.

high (normalized) signal in brain, but which showed very low (normalized) signal (less than 0.5, determined to be biological noise) in all other tissues, were further studied. There were 82 sequences that fit these criteria, approximately 2% of the arrayed elements. The 10 sequences showing the highest signal in brain in microarray hybridizations are detailed in Table 2, along with assigned function, if known or reasonably predicted.

Fi	inction	of the Mos	t Highiy	
Expressed Ge	enes Exp	ressed Onl	y in Brain	n.
•		Expressi on Ratio	Homology to EST present in	Gene Function as described by
		·	GenBank	In and mystein
AP000217-1	5.2	+7.7	High	S-100 protein, b-chain, Ca ²⁺ binding protein
				expressed in central nervous
				system
AP000047-1	2.3		High	Unknown Function
AC006548-9) 1.7		High	Similar to mouse membrane glyco-protein
				M6, expressed in central nervous system
AC007245-	5 1.5		High	Similar to amphiphysin, a synaptic
				vesicle- associated protein. Ref 2
L44140-4	1.2	+2.0	High	Endothelial actin-binding
				protein found in nonmuscle

				filamin
		}		· · · · · · · · · · · · · · · · · · ·
AC004689-9	1.2	+3.5	High	Protein
2004000				Phosphatase
				PP2A, neuronal/
				downregulates
				activated
				protein kinases
AL031657-1	1.2	+3.0	High	Unknown
ALUSTOS, I				function/
				Contains the
)			anhyrin motif,
•				a common
				protein
				sequence motif
AC009266-2	1.1	+3.7	Low	Low homology to
AC009266-2	1			the
				Synaptotagmin I
				protein in
				rat/present at
				low levels
				throughout rat
				brain
AP000086-1	11.0	+2.7	Low	Unknown, very
APUUUUUU				poor homology
				to collagen
AC004689-3	1.0		High	Protein
AC004689-3				Phosphatase
			}	PP2A, neuronal
	}			downregulates
				activated
				protein kinase

Of the ten sequences studied by these latter confirmatory approaches, eight were previously known. Of these eight, six had previously been reported to be

important in the central nervous system or brain. The exon giving the highest signal (AP00217-1) was found to be the gene encoding an S100B Ca²⁺ binding protein, reported in the literature to be highly and uniquely expressed in the central nervous system. Heizmann, Neurochem. Res. 9:1097 (1997).

A number of the brain-specific probe sequences

(including AC006548-9, AC009266-2) did not have homology to
any known human cDNAs in GenBank but did show homology to

10 rat and mouse cDNAs. Sequences AC004689-9 and AC004689-3

were both found to be phosphatases present in neurons

(Millward et al., Trends Biochem. Sci. 24(5):186-191

(1999)). Two microarray sequences, AP000047-1 and

AP000086-1 have unknown function, with AP000086-1 being

15 absent from GenBank. Functionality can now be narrowed
down to a role in the central nervous system for both of
these genes, showing the power of designing microarrays in
this fashion.

Next, the function of the chip sequences with the

10 highest (normalized) signal intensity in brain, regardless
of expression in other tissues, was assessed. In this
latter analysis, we found expression of many more common
genes, since the sequences were not limited to those
expressed only in brain. For example, looking at the 20

12 highest signal intensity spots in brain, 4 were similar to
tubulin (AC00807905; AF146191-2; AC007664-4; AF14191-2), 2
were similar to actin (AL035701-2; AL034402-1), and 6 were
found to be homologous to glyceraldehyde-3-phosphate
dehydrogenase (GAPDH) (AL035604-1; Z86090-1; AC006064-L,

13 AC006064-K; AC035604-3; AC006064-L). These genes are often
used as controls or housekeeping genes in microarray
experiments of all types.

Other interesting genes highly expressed in brain were a ferritin heavy chain protein, which is reported in the literature to be found in brain and liver (Joshi et

al., J. Neurol. Sci. 134(Suppl):52-56 (1995)), a result duplicated with the array. Other highly expressed chip sequences included a translation elongation factor 1D (AC007564-4), a DEAD-box homolog (AL023804-4), and a Y-chromosome RNA-binding motif (Chai et al., Genomics 49(2):283-89 (1998)) (AC007320-3). A low homology analog (AP00123-1/2) to a gene, DSCR1, thought to be involved in trisomy 21 (Down's syndrome), showed high expression in both brain and heart, in agreement with the literature (Fuentes et al., Mol. Genet. 4(10):1935-44 (1995)).

As a further validation of the approach, we selected the BAC AC006064 to be included on the array. This BAC was known to contain the GAPDH gene, and thus could be used as a control for the ORF selection process.

The gene finding and exon selection algorithms resulted in choosing 25 exons from BAC AC006064 for spotting onto the array, of which four were drawn from the GAPDH gene. Table 3 shows the comparison of the average expression ratio for the 4 exons from BAC006064 compared with the average expression ratio for 5 different dilutions of a commercially available GAPDH cDNA (Clontech).

Table 3

ble 3 Compari	son of Expression R	atio, for each
tissue, of GAPDH		
·	AC006064 (n = 4)	
Managory	-1.81 ± 0.11	-1.85 ± 0.08
Bone Marrow	-1.41 ± 0.11	-1.17 ± 0.05
Brain		1.66 ± 0.12
BT474	1.85 ± 0.09	
Fetal Liver	-1.62 ± 0.07	-1.41 ± 0.05
	1.32 ± 0.05	2.64 ± 0.12
HBL100	1.16 ± 0.09	1.56 ± 0.10
Heart		1.30 ± 0.15
HeLa	1.11 ±0.06	1.30 1 0.10

Liver	-1.62 ± 0.22	-2.07 ±
Lung	-4.95 ± 0.93	-3.75 ± 0.21
Placenta	-3.56 ± 0.25	-3.52 ± 0.43

Each tissue shows excellent agreement between the experimentally chosen exons and the control, again demonstrating the validity of the present exon mining approach. In addition, the data also show the variability of expression of GAPDH within tissues, calling into question its classification as a housekeeping gene and utility as a housekeeping control in microarray experiments.

EXAMPLE 3

Representation of Sequence and Expression Data as a "Mondrian"

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For each genomic clone processed for microarray as above-described, a plethora of information was accumulated, including full clone sequence, probe sequence within the clone, results of each of the three gene finding programs, EST information associated with the probe sequences, and microarray signal and expression for multiple tissues, challenging our ability to display the information.

Accordingly, we devised a new tool for visual display of the sequence with its attendant annotation which, in deference to its visual similarity to the paintings of Piet Mondrian, is hereinafter termed a "Mondrian". FIGS. 3 and 4 present the key to the information presented on a Mondrian.

FIG. 9 presents a Mondrian of BAC AC008172 (bases 25,000 to 130,000 shown), containing the carbamyl phosphate synthetase gene (AF154830.1). Purple background within the

region shown as field 81 in FIG. 3 indicates all 37 known exons for this gene.

As can be seen, GRAIL II successfully identified 27 of the known exons (73%), GENEFINDER successfully identified 37 of the known exons (100%), while DICTION identified 7 of the known exons (19%).

Seven of the predicted exons were selected for physical assay, of which 5 successfully amplified by PCR and were sequenced. These five exons were all found to be from the same gene, the carbamyl phosphate synthetase gene (AF154830.1).

The five exons were arrayed, and gene expression measured across 10 tissues. As is readily seen in the Mondrian, the five chip sequences on the array show identical expression patterns, elegantly demonstrating the reproducibility of the system.

FIG. 10 is a Mondrian of BAC AL049839. We selected 12 exons from this BAC, of which 10 successfully sequenced, which were found to form between 5 and 6 genes. Interestingly, 4 of the genes on this BAC are protease 20 inhibitors. Again, these data elegantly show that exons selected from the same gene show the same expression patterns, depicted below the red line. From this figure, it is clear that our ability to find known genes is very 25 good. A novel gene is also found from 86.6 kb to 88.6 kb, upon which all the exon finding programs agree. We are confident we have two exons from a single gene since they show the same expression patterns and the exons are proximal to each other. Backgrounds in the following 30 colors indicate a known gene (top to bottom): red = kallistatin protease inhibitor (P29622); purple = plasma serine protease inhibitor (P05154); turquoise = α l anti-chymotrypsin (P01011); mauve = 40S ribosomal protein (P08865). Note that chip sequence 8 and 35 12 did not sequence verify.

EXAMPLE 4

Genome-Derived Single Exon Probes Useful For Measuring 5 Human Gene Expression

The protocols set forth in Examples 1 and 2, supra, were applied to additional human genomic sequence as it became newly available in GenBank to identify unique 10 exons in the human genome that could be shown to be expressed at significant levels in lung.

These unique exons are within longer probe sequences. Each probe was completely sequenced on both strands prior to its use on a genome-derived single exon 15 microarray; sequencing confirms the exact chemical structure of each probe. An added benefit of sequencing is that it placed us in possession of a set of single baseincremented fragments of the sequenced nucleic acid, starting from the sequencing primer 3' OH. (Since the 20 single exon probes were first obtained by PCR amplification from genomic DNA, we were of course additionally in possession of an even larger set of single base incremented fragments of each of the 12,614 single exon probes, each fragment corresponding to an extension product from one of 25 the two amplification primers.)

The structures of the 12,614 unique single exon probes are clearly presented in the Sequence Listing as SEQ ID Nos.:1 - 12,614. The 16 nt 5' primer sequence and 16 nt 3' primer sequence present on the amplicon are not included in the sequence listing. The sequences of the exons present within each of these probes is presented in the Sequence Listing as SEQ ID Nos.: 12,615 - 25,001, respectively. It will be noted that some amplicons have more than one exon, some exons are contained in more than 35 one amplicon.

As detailed in Example 2, expression was

demonstrated by disposing the amplicons as single exon

probes on nucleic acid microarrays and then performing two
color fluorescent hybridization analysis; significant

expression is based on a statistical confidence that the

signal is significantly greater than negative biological

control spots. The negative biological control is formed

from spotted DNA sequences from a different species. Here,

32 sequences from E.Coli were spotted in duplicate to give

a total of 64 spots.

For each hybridisation (each slide, each colour) the median value of the signal from all of the spots is determined. The normalised signal value is the arithmetic mean of the signal from duplicate spots divided by the population median.

Control spots are eliminated if there is more that a five-fold difference between each one of the duplicate spots raw signals.

The median of the signal from the remaining control spots is calculated and all subsequent calculations are done with normalised signals.

Control spots having a signal of greater than median + 2.4 (the value 2.4 is roughly 12 times the observed standard deviation of control spot populations) are eliminated. Spots with such high signals are considered to be "outliers".

The mean and standard deviation of the modified control spot populations are calculated.

The mean + 3x the standard deviation (mean + 3x the signal threshold qualifier for that particular hybridisation. Thus, individual thresholds are determined for each channel and each hybridisation.

This means that, assuming that the data is distributed normally, there is a 99% confidence that any signal exceeding the threshold is significant.

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The probes and their expression data are presented in Table 4, set forth respectively in Example 5.

Example 5 presents the subset of probes that is significantly expressed in the human lung and thus presents the subset of probes that was recognized to be useful for measuring expression of their cognate genes in human lung tissue.

The sequence of each of the exon probes
identified by SEQ ID NOS.: 12,615 - 25,001 was individually
used as a BLAST (or, for SWISSPROT, BLASTX) query to
identify the most similar sequence in each of dbEST,
SwissProt (BLASTX), and NR divisions of GenBank. Because
the query sequences are themselves derived from genomic
sequence in GenBank, only nongenomic hits from NR were
scored.

The smallest in value of the BLAST (or BLASTX) expect ("E") scores for each query sequence across the three database divisions was used as a measure of the "expression novelty" of the probe's ORF. Table 4 is sorted in descending order based on this measure, reported as "Most Similar (top) Hit BLAST E Value". Those sequences for which no "Hit E Value" is listed are those exons which were found to have no similar sequences.

As sorted, Table 4 thus lists its respective

25 probes (by "AMPLICON SEQ ID NO.:" and additionally by the

SEQ ID NO: of the exon contained within the probe: "EXON

SEQ ID NO.:") from least similar to sequences known to be

expressed (i.e., highest BLAST E value), at the beginning

of the table, to most similar to sequences known to be

30 expressed (i.e., lowest BLAST E value), at the bottom of

the table.

Table 4 further provides, for each listed probe, the accession number of the database sequence that yielded the "Most Similar (top) Hit BLAST E Value", along with the name of the database in which the database sequence is

found ("Top Hit Database Source").

Table 4 further provides SEQ ID NOS. corresponding to the predicted amino acid sequences where they have been determined for the probe and exon nucleotide 5 sequences. These are set out as PEPTIDE SEQ ID NOS.:. The peptide sequences for a given exon are predicted as follows: Since each chip exon is a consensus sequence drawn from predictions from various exon finding programs (i.e. Grail, GeneFinder and GenScan), the multiple initial ORFs 10 are first determined in a uniform way according to each prediction. In particular, the reading frame for predicting the first amino acid in the peptide sequence always starts with the first base of any codon and ends with the last base of non-termination codon. Next, for each strand of the 15 exon, initial ORFs are merged into one or more final ORFs in an exhaustive process based on the following criteria: 1) the merging ORFs must be overlapping, and 2) the merging ORFs must be in the same frame.

The Sequence Listing, which is a superset of all
of the data presented in Table 4, further includes, for
each probe, the most similar hit, with accession number and
BLAST E value, from the each of the three queried
databases.

Table 4 further lists, for each probe, a portion

of the descriptor for the top hit ("Top Hit Descriptor") as provided in the sequence database. For those ORFs that are similar in sequence, but nonidentical to known sequences (e.g., those with BLAST E values between about 1e-05 and 1e-100), the descriptor reveals the likely function of the protein encoded by the probe's ORF.

Using BLAST E value cutoffs of 1e-05 (i.e., 1 x 10^{-5}) and 1e-100 (i.e., 1 x 10^{-100}) as evidence of similarity to sequences known to be expressed is of course arbitrary: in Example 2, supra, a BLAST E value of 1e-30 was used as the boundary when only two classes were to be defined for

analysis (unknown, >1e-30; known <1e-30) (see also FIG. 8).

Furthermore, even when the "Most Similar (Top) Hit BLAST E

Value" is low, e.g., less than about 1e-100 — which is

probative evidence that the query sequence has previously

been shown to be expressed — the top hit is highly unlikely
exactly to match the probe sequence.

First, such expression entries typically will not have the intronic and/or intergenic sequence present within the single exon probes listed in the Table. Second, even the ORF itself is unlikely in such cases to be present identically in the databases, since most of the EST and mRNA clones in existing databases include multiple exons, without any indication of the location of exon boundaries.

As noted, the data presented in Table 4 represent a proper subset of the data present within the attached sequence listing. For each amplicon probe (SEQ ID NOs.: 1 - 12,614) and probe exon (SEQ ID NOs.: 12,615 - 25,001, respectively), the sequence listing further provides, through iterated annotation fields <220> and <223>:

- (a) the accession number of the BAC from which the sequence was derived ("MAP TO"), thus providing a link to the chromosomal map location and other information about the genomic milieu of the probe sequence;
- (b) the most similar sequence provided by BLAST 25 query of the EST database, with accession number and BLAST E value for the "hit";
 - (c) the most similar sequence provided by BLAST query of the GenBank NR database, with accession number and BLAST E value for the "hit"; and
- (d) the most similar sequence provided by BLASTX query of the SWISSPROT database, with accession number and BLAST E value for the "hit".

³⁵ EXAMPLE 5

Genome-Derived Single Exon Probes Useful For Measuring Expression of Genes in Human Lung

Table 4 (523 pages) presents expression, homology, and functional information for the genome-derived single exon probes that are expressed significantly in human lung.

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- A spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived
 from human lung comprising a plurality single exon nucleic probes, said probes comprising any one of the nucleotide sequences set out in SEQ ID NOs: 1 12,614 or a complementary sequence, or a portion of such a sequence.
- 10 2. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably amplifiable.
- 3. A spatially-addressable set of single exon nucleic acid 15 probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably isolatable from said plurality.
- 4. A spatially-addressable set of single exon nucleic acid 20 probes as claimed in any of claims 1 to 3 wherein said probes comprise any one of the nucleotide sequences set out in SEQ ID NOS.: 12,615 - 25,001.
- 5. A spatially-addressable set of single exon nucleic acid 25 probes as claimed in any of claims 1 to 4, wherein each of said plurality of probes is amplifiable using at least one common primer.
- 6. A spatially-addressable set of single exon nucleic acid 30 probes as claimed in any of claims 1 to 5 wherein the set comprises between 50 - 20,000 single exon nucleic acid probes.
- 7. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 6, wherein the

average length of the single exon nucleic acid probes is between 200 and 500 bp.

- 8. A spatially-addressable set of single exon nucleic.acid 5 probes as claimed in any of claims 1 to 7, wherein at least 50% of said single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence.
- 9. A spatially-addressable set of single exon nucleic acid 10 probes as claimed in any of claims 1 to 8, wherein at least 50% of said single exon nucleic acid probes lack homopolymeric stretches of A or T.
- 10. A spatially-addressable set of single exon nucleic acid 15 probes as claimed in any of claims 1 - 9 characterised in that said set of probes is addressably disposed upon a substrate.
- 11. A spatially-addressable set of single exon nucleic acid 20 probes as claimed in claim 10 wherein said substrate is selected from glass, amorphous silicon, crystalline silicon and plastic.
- 12. A microarray comprising a spatially addressable set of single exon nucleic acid probes as claimed in any of claims 1 11.
- 13. A single exon nucleic acid probe for measuring human gene expression in a sample derived from human lung comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 1 12,614 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid molecule expressed in the human lung.

14. A single exon nucleic acid probe as claimed in claim 13 comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 12,615 - 25,001 or a complementary sequence or a fragment thereof.

- 15. A single exon nucleic acid probe for measuring human gene expression in a sample derived from human lung which is a nucleic acid molecule having a sequence encoding a peptide comprising a peptide sequence as set out in any of 10 SEQ ID NOs.: 25,002 - 37,012, or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid expressed in the human lung.
- 16. A single exon nucleic acid probe as claimed in any one 15 of claims 13 to 15 wherein said single exon nucleic acid probe comprises between 15 and 25 contiguous nucleotides of said SEQ ID NO.
- 17. A single exon nucleic acid probe as claimed in any one 20 of claims 13 to 15, wherein said probe is between 3 - 25 kb in length.
 - 18. A single exon nucleic acid probe as claimed in any one of claims 13 - 17, wherein said probe is DNA, RNA or PNA.
- 25
- 19. A single exon nucleic acid probe as claimed in any one of claims 13 - 18, wherein said probe is detectably labeled.
- · 30 20. A single exon nucleic acid probe as claimed in any one of claims 13 - 19, wherein said probe lacks prokaryotic and bacteriophage vector sequence.
 - 21. A single exon nucleic acid probe as claimed in any one 35 of claims 13 - 20, wherein said probe lacks homopolymeric

stretches of A or T.

22. A method of measuring gene expression in a sample derived from human lung, comprising:

contacting the microarray of claim 12, with a first collection of detectably labeled nucleic acids, said first collection of nucleic acids derived from mRNA of human lung; and then

measuring the label detectably bound to each probe of said microarray.

23. A method of identifying exons in a eukaryotic genome, comprising:

algorithmically predicting at least one exon from genomic sequence of said eukaryote; and then detecting specific hybridization of detectably labeled nucleic acids to a single exon probe,

wherein said detectably labeled nucleic acids are derived from mRNA from the lung of said eukaryote, said probe is a single exon probe having a fragment identical in sequence to, or complementary in sequence to, said predicted exon, said probe is included within a microarray according to claim 12, and said fragment is selectively hybridizable at high stringency.

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24. A method of assigning exons to a single gene, comprising:

identifying a plurality of exons from genomic sequence according to the method of claim 23; and then

measuring the expression of each of said exons in a plurality of tissues and/or cell types using hybridization to single exon microarrays having a probe with said exon,

35 wherein a common pattern of expression of said exons in

said plurality of tissues and/or cell types indicates that the exons should be assigned to a single gene.

- 25. A nucleic acid sequence as set out in any of SEQ ID 5 NOs: 1 25,001 which encodes a peptide.
 - 26. A peptide encoded by a sequence as set out in any of SEQ ID Nos: 1 25,001.
- 10 27. A peptide comprising a sequence as set out in any of SEQ ID Nos: 25,002 37,012.

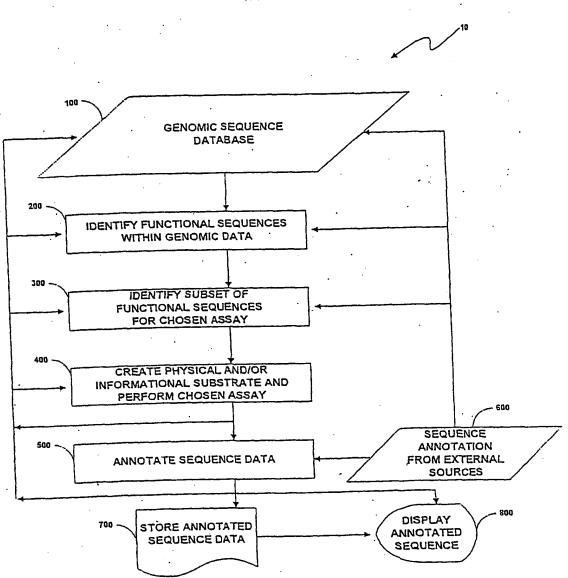


Fig. 1

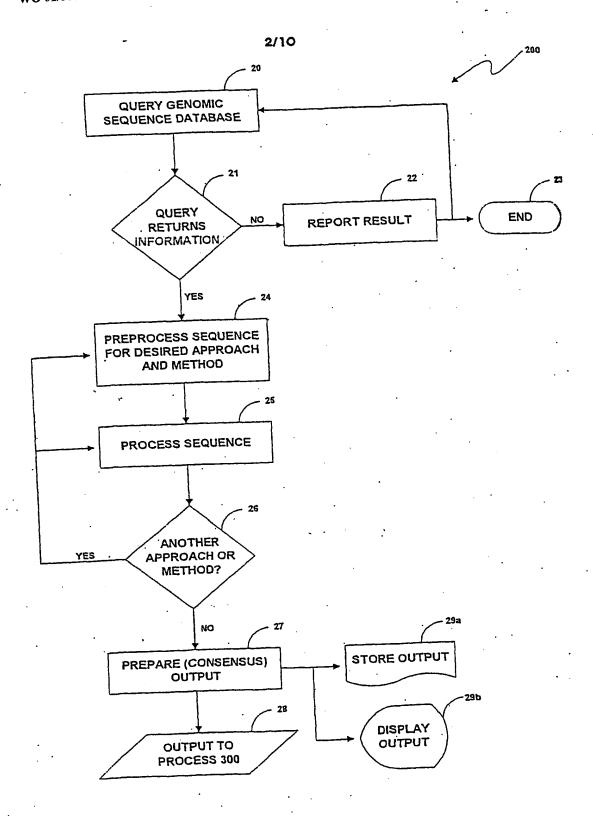


Fig. 2

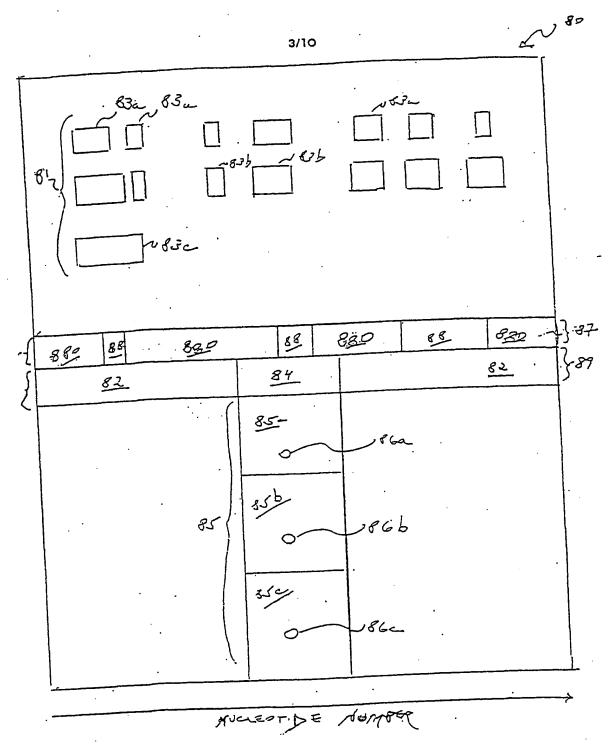


Fig. 3

4/10

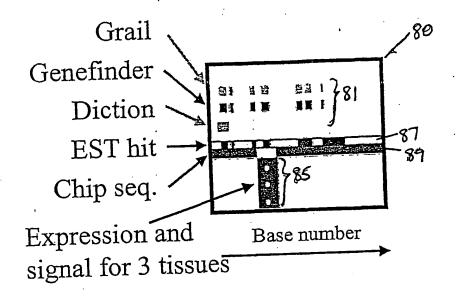


Fig. 4

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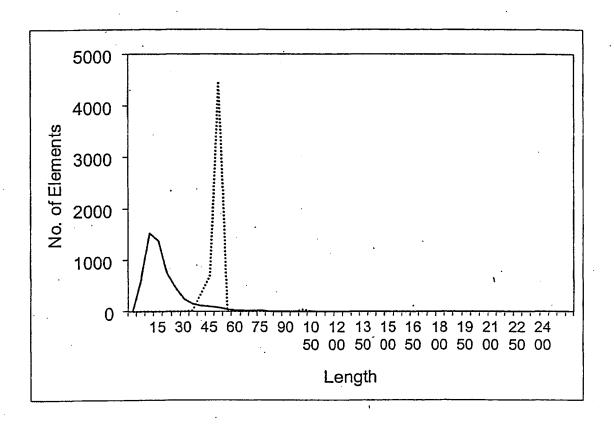


Fig. 5

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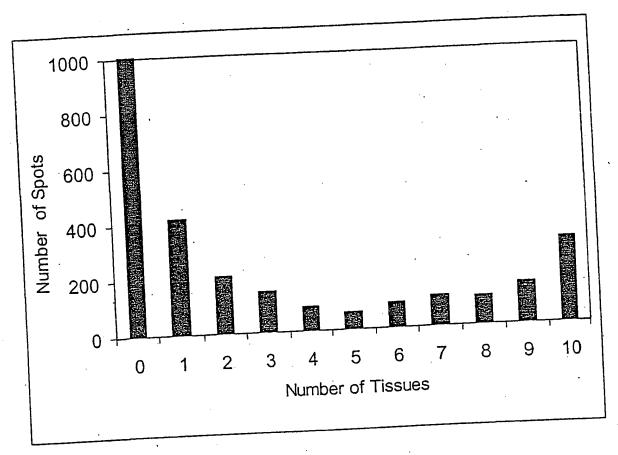
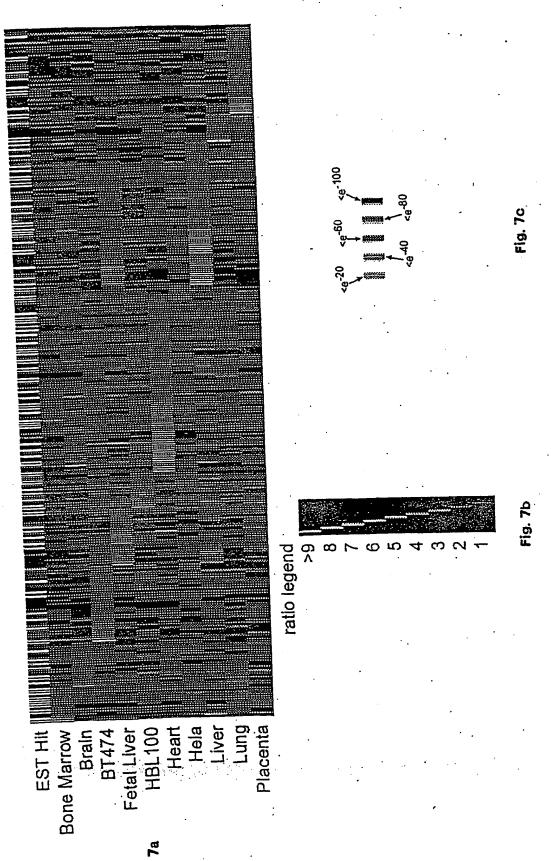
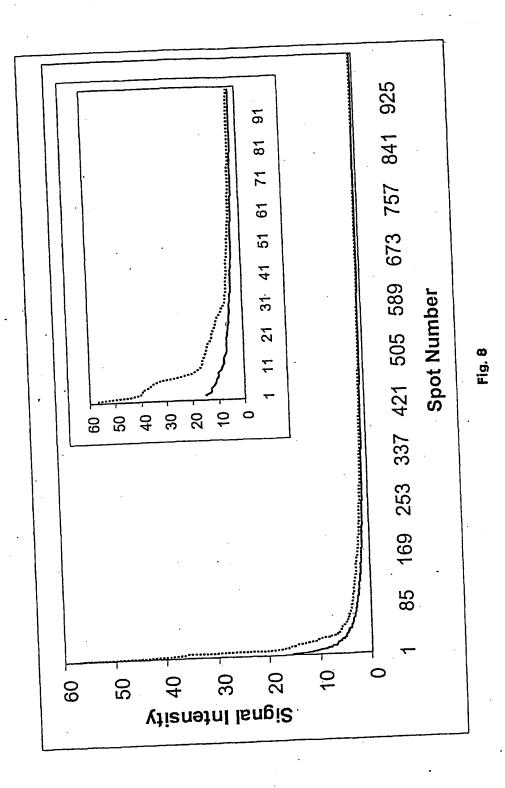


Fig. 6





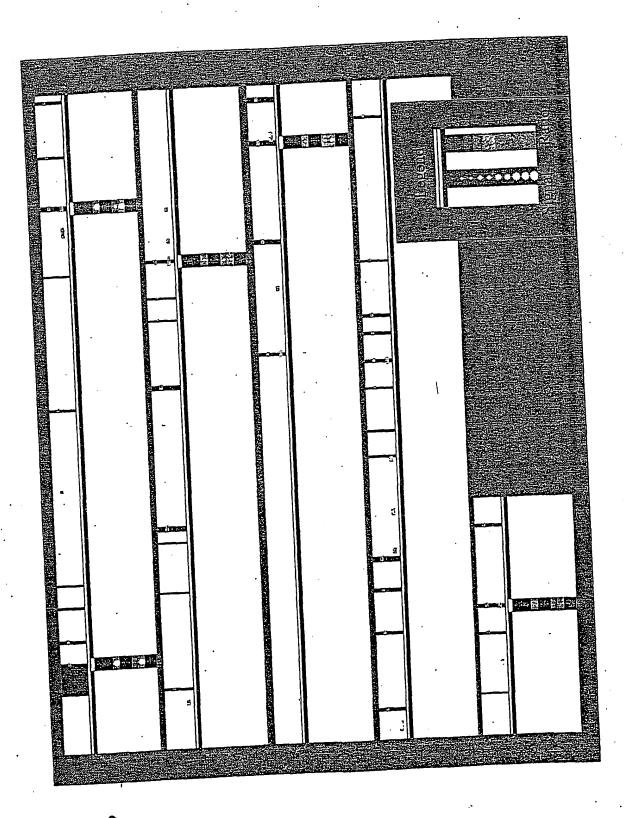
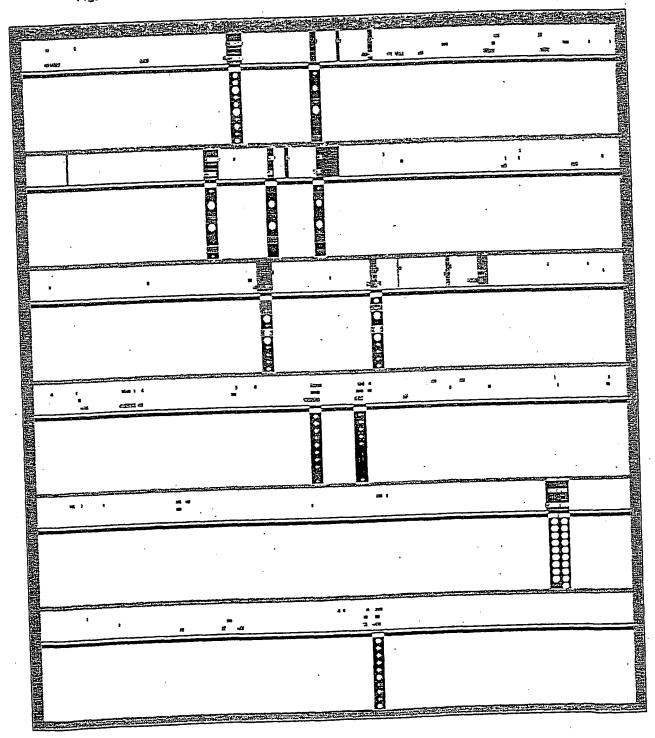


Fig. 5

10/10

Fig. 10



Single Exon Probes Expressed in Lung	SEQ Expression (Top) Hit Acession Osteon Signal BLASTE No. Source Source	5464 6.91	6914 13.47	2.76	6321 11.77	6629 1.37	6844 3.67	6734 0.89	6768 5.47	6869 1.04	6945 146		7212 1.12	7502 1.14	7503 1.14	8116 3.08	6384 1.22	8459 16.98	0.83								0018 5.84		0341 1.68	0342 1.58	3.96	6.35	2.9		1276 3.48
		6.91	13.47	2.76	11.77	1.37	3.67	0.89	5.47	1.04	1.46	1.46	1.12	1.14	1.14	3.08	1.22	16.98	0.83	1.34	6.98	0.85	0.85	0.68	1.26	9.0	5.84	1.09	1.58	1.58	3.96	6.35	2.9	0.45	3.48
	ORF SEQ ID NO:		3 25914		26321			26734						27502	27503	3 28115		3 28459								ļ				30342				31270	
	SEQ ID NO:		13466	13616	13870			14250		14376	14442		14688		14989			16038				_		_ [ı	1			18098						18590
	Probe SEQ ID NO:	467	912	1070	1334	1628	1644	1722	1746	1854	1923	2073	2177	2488	2488	3143	3427	3495	3549	4213	4278	4298	4298	4416	4894	5003	5152	5172	5507	5507	5678	5864	5948	6010	8016

1

Single Exon Probes Expressed in carry	Top Hit Descriptor																					15 48 47 and 48	Homo sapiens LSS gene, partial, excess 15, 10, 11 and 18 denotine	Haemophilus influenzae Ko section 51 of 103 of all comments	Gallus gallus omithine transcarbamylase (O.O.) gency own 1	Gallus gallus omithine transpartamyrase (O. O. B. Bart) Santa (Naipt) and general transcription	Mus musculus Nalp3 gene, exon 1; neuronal apopuals unimmus pro-	feator III polypeptude 2 (Stratz, 9000). Mans musculus Naip3 gene, exon 1; neuronal apoptosis Inhibitory protein 1 (Naip1) and general transcription	factor IIH polypeptide 2 (Gtf2h2) genes, complete cds	Dengue virus type 3 membrane protein (prM/M)/envelope glycoprotein (E) polyprotein invvo., per en	a membrane protein (ph/MM)/envelope glycoprotein (E.) polyprotein mRNA, partial ods	Derigue vitus sylve o income
le Exon Probe	Top Hit Database Source																				-	-	Į.	Z.	NT	1Z		Į.	F	Ä		TN.
Sing	op Hit Acession No.																						A 1239028 1		A E085630 1	SOETO A FORERSO 1		9.6E+00 AF242432.1	9.6E+00 AF242432.1	0[11433.1		00 L11433.1
}	Most Similar (Top) Hit BLAST E Value			+		1	+	1	†	1													00130	1	2 2	0.10.9 0.10.9						9.4日十
	Expression (Signal	1.51	1.93	1.01	1.26	1.26	0.55	9.62	27.	1.23	1.59	1.48	5.69	1.07	1:1	8.1	2.07	3.23	1.78	1:87	1.87	1.27	1.70	21.04		0.87		1,44	1.44	08.9		6.39
	ORF SEQ E	31016	31646		32217	32218	32859	32860	33197	33198	34016	34336	35068	35305	35402				36613		35840						32758	35684	35685		0 2/6/10	27616
	SEQ ID O	24607	18913	182208	1944	19441	20015	20015	20331	20331	21113	21425	22141	L	1_	L.	١	Ι.	<u>_</u>	22865	L_			3 18916		19924	19924	7 22717	l	<u> </u>	15100	34 15100
	Probe SEQ ID NO:	92.58	8355	8756	689	F068	7565	7565	7892	7892	8478	8992	97.18	9955	10052	10474	10804	10872	11117	11213	11213	12042	12376	6358	8640	7419	7419	10317	1	3	2604	2604

Top Hit Descriptor	Z207c11.r1 Soares melanocyte ZNbHM Homo sapiens convictione IMAGE:291860 5	AND CITED CAPSIN PROTEIN VP4 (HEMAGGLUTININ) (OUTER LAYER PROTEIN VP4) [CONTAINS:	OUTEN CAS OF PROTEINS VPS AND VP8] OUTEN CAS OF THE TOTAL 157 0 KDA PROTEIN C38C10.5 IN CHROMOSOME III	A TECHNI OMETHY TRANSFERASE, SOLUBLE FORM (S-COMT)	PACTABLE NIH MGC 81 Homo sapiens cDNA clone IMAGE:4283427 5	USCUSSION OF KINASE (11K) (URIDINE MONOPHOSPHATE KINASE) (UMP KINASE)	UNID 12 HE KINASE (UK) (URIDINE MONOPHOSPHATE KINASE) (UMP KINASE)	FIND POLYPROTEIN CONTAINS: COAT PROTEIN GP62; COAT PROTEIN GP36]	Schooling commine unknown mRNA	SOURCE MARCON MIN MICE 67 Homo sapiens CONA clone IMAGE:3871303 6'	4 control of Society Principles Interus NaHPU Homo septens cDNA done IMAGE: 485069 3'	Accounts at Comment of Mina (Konke) genes, A channel subunit (Konke) genes,	Mus musculus mixed integer rurase of (mixe) and the complete cds	601645279F1 NIH MGC 56 Home saplens cDNA cions IMAGE:3830431 3	Homo saniens DESC1 protein (DESC1), mRNA	Auro misserins immi modebuiln scavenger receptor IgSR mRNA, complete cds	Nutra misserius imminoralchulin scavenger receptor IgSR mRNA, complete cds	With muscular in the control of the	UNA POLIMETANDE M. ALI IN OFFICE OFFI	LETOUTERE BELLA OF CENTER OF THE STANSCRIPTION REPRESSOR HRCA	DNET TAKEN YSIN (THIOL -ACTIVATED CYTOLYSIN)	Chicken ainha-cardian actin dene	Ottobre replace and the section cand	Chicken aprile calculate active Berry (NEL RELATED PROTEIN 2)	NEL PRO ILIN I NECEPTOR 17PE 4 (NPY4-R) (PANCREATIC POLYPEPTIDE RECEPTOR 1) (PP4)	MITEL I OCENIN PRECURSOR (VTG) (CONTAINS: LIPOVITELLIN LV-1N; LIPOVITELLIN LV-1C;	LIPOVITELLIN LV-2)	RHODOPSIN	RHODOPSIN	\neg	HOMEGBUX PROTEIN CENTROL SALE DESIGNATION OF THE DISTRIBUTION OF THE POLYMERASE CATALYTIC SUBUNIT)	7
Top Hit Detabase Source	EST_HUMAN	EST HOMAN	SWISSPROT	SWISSPROI	SWISSPROI	ESI HOMAN	SWISSPROT	TOPOSTA	SWISSING	N .	EST HUMAN	EST_HUMAN	F	FST HI IMAN			Z	<u>L</u> N	SWISSPROT	SWISSPROL	SWISSPROT	DRYSSIWS TI	Z	L _N	SWISSPROI	SWISSIMS	SWISSPROT	SWISSPROT	SWISSPROT	۲	SWISSPROT	SWISSPROT
Top Hit Acession No.	N03412.1	N03412.1	736307	203570	099028	6.6E+00 BF672121.1	Q9ZE07	09ZE07	P033/4	6.2E+00 AY010901.1	6.0E+00 BE780163.1	AA037751.1	AF155142.1	DEGERGA 4	REBORGS								X02212.1		099435	P50391	091062		0 017094	0 143126.1	D P41779	0 P54098
Most Similar (Top) Hit BLAST E Value	6.8E+00 W03412.1	6.8E+00 W03412.1	6.8E+00 P36307	6.8E+00 Q03570	6.6E+00 Q99028	6:6E+00	- 1	1	6.5E+00/P033/4	8.2E+00		5.9E+00	A 00+100 A		1	- {										5.4E+00	2 4F+00	1		4 5.3E+00		8 5.3E+00
Expression	1.54	1.54	1.65	3.37	0.7	0.77	2.36	2.38	7.71	1.81	1.6	0.41	7.44		1.74			0.84	1.5	,			1.16	1.16	0.89	3 0.64	,				0.77	3.08
ORF SEQ ID NO:	33889			35550		32212				35204	32801	31041		32100				32904	3		31866		1 32554	32555	8	7 33778	ı y	35418		L	_	92
Exen SEO ID NO:	21002	21002	ì	Ŀ	18125	19436	ŀ	22495	21891	22265	19967	24593				16048	3 20052	l_	L	1	3 19124	8 22880	19751	19751	6 20238	720877		22484	┸	L	ı	Ш
Probe SEQ ID NO:	8567	8567	9429	10184	5535	9889	10094	10094	9460	9862	7465	5801		6871	11380	3505	7603	7603	8085	11230	6573	11228	7339	7339	7796	8464		8340 40063	1000	4837	9836	8697

Top Hit Descriptor	I DEPORABILE ANTIBACTERIAL PEPTIDE POLYPROTEIN PRECURSOR	T	Т	1	RHODOPSIN	Ţ	ZING FINGER PRO I EIN PRA (ALL-1)	П	Canis ramillaris skeletal musco cilionos chamics of 1 (22011)	Mycobacterium unberculosis 113/17V Compacto general Joganne Celtractin, NAD(P) Steroid dehydrogenase	Mus musculus chromosome A contight, pugate mages 5 gale; caractering and Zinc finger protein 185		Human hereditary haemochromatosis region, histone 2A-ilke protein gene, hereditary haemochromatosis	(HLA-H) gene, Koket gene, and socium priospriate usi isperios (m. 17) social company	╗	PM0-B10547-310100-002-504	П	\neg	7	\neg	Т	Methanococcus jannaschii sedirati 111 d. 130 d. die Schilpton generit.			П		N 602072585F1 NCI CGAP Bm67 Homo sepiens CDNA done IMAGE: 421325# 3		Murine I gene for MHC class II(Ia) associated invariant chain	Nicotiana tabacum inorganic phosphate transporter (* 11) moves, compress con	Homo sapiens neutrophil collagenase (CLGIAA) gena, promoca region and control	resmodium raciparum reary van Bere, ever
Top Hit Database Source	TOGGGGGGG	SWISSPROI	EST_HUMAN	NT	SWISSPROT	SWISSPROT	SWISSPROT	EST HUMAN	Ľ.	Ł	- FX			NT NT	·	EST HUMAN	EST_HUMAN	EST_HUMAN	<u>ل</u> ا	EST HUMAN	EST_HUMAN	Ł	EST_HUMAN	EST HUMAN	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	ΝΤ	ĻN.	N
Top Hit Acession No.		227905	6.2E+00 BE184840.1	5.2E+00 AF248070.1	016005	P09182	P65200	BF310443.1	AF162445.2	Z83860.1	4.9E+00 AL021127.2				AF185255.1	AW750067.1	BF240552.1	BF240552.1	AL163280.2	BE072352.1	BE072352.1	U67569.1	BE646437.1				BF530893.1	BF530893.1	X13414.1		AF059679.1	Y13402.1
Most Similar (Top) Hit BLAST E		5.3E+00 Q27905	6.2E+00	5.2E+00	5.1E+00 O16005	5.1E+00 P09182	6.1E+00 P	5.0E+00 B	5.0E+00 A	6.0E+00 Z	4.9E+00			4.9E+00	4.8E+00	4.8E+00	4.7E+00	4.7E+00	4.7E+00	4.7E+00	4.7E+00	4.6E+00	4.6E+00	<u> </u>			L	4.4E+00	L	4.4E+00		4.3E+00
Expression Signal		1.68	1.01	1.04	0.92	1.2	3.32	0.79	3.76	3.22	5.39			0.89	13.73	5.27	1.55	1.59	1.12	2.2		0.75	1.24						Ì	0.59	0.76	1.58
ORF SEQ ID NO:		36798			34855	35260	36507	31911		36512	77637						25318							l _		36894				31886	9	33227
Exan SEQ ID NO:		23739	18304	22687	21747	22314	23481	19161	l.	1_	l	ı		22600	L	l_		1_	1		Į.	L	<u> </u>	1	20741	L		Ĺ.	1_	L	18986	3 20360
Probe SEQ ID NO:		11377	5722	10286	9315	8912	11055	1199	10324	11060	3630	6707		10199	4075	9030	303	304	3236	11344	11344	8344	7,70		247	11/60	300	3000	6516	6587	6430	7923

Prob Exm Opt Sto Department Top Hit Description Top Hit Top Hit Aces with						,		Т	7	Т	Т	Т	Т	Т	T	Т	Ť	Ī	T	Ť	T	T	T	T	T	T	T	T	1	T	1			
Dec		Top Hit Descriptor Top Hit Descriptor	Treponema pallidum section 30 cm. 1 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) Homo sequents glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds. Homo septens DiGeorge syndrome critical region gene 2 (DGCR2), mRNA Homo septens DiGeorge syndrome critical region gene 2 (DGCR2), mRNA	MICROSOMAL DIPEPTIDASE PRECURSOR (MUP) (DENIEVOS	(RDP) LAF-4 PROTEIN (LYMPHOID NUCLEAR PROTEIN)	PUTATIVE ATP-DEPENDENT HELICASE MILITIONS PUTATIVE ATP-DEPENDENT HE	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN)	EXTENSIN PRECURSOR (CELL WALL !! E. C. P.	WISTGOS:X1 SOBIES VITE - CONTRINI (POU DOMAIN PROTEIN 1) (PDM-1) (DPOU-19) (DOU 1)	NUBBIN PROTEIN (TIVAIN) ANTIGEN P63	CELLULAR TOWOLKER PES	CELLULAR TOWNER AND Sadens CDNA done IMAGE:3351534 6	601110727F1 NIH WGC 58 Homo saplens cDNA clone IMAGE:4069758 5	801859U3011 NIT WOOD	YY1 PROTEIN PRECURSOR	Patinopecten yessoensis linvay to commend a patinopecten yes a patinope	GENE 68 PKO IEIN	GENE 68 PROTEIN	Pan troglodytes novel repetute occurrence on a clone IMAGE: 4333209 5	П	٦	7	1	П	٦	7			Г			Mus musculus seminal vesture secured 7	
Exam ORF SEQ Expression Signal Top Hit Aces Top Hit Aces SEQ ID ID NO: Signal Top Hit Aces No. 20566 33443 0.81 4.3E+00 AE-001222.1 23084 36089 5.86 4.3E+00 AF-240786.1 23148 2.3748 4.2E+00 PF-840786.1 18360 3.2689 1.59 4.2E+00 PF-844786.1 18440 31116 0.52 4.2E+00 PF-8444 18614 3.2689 1.59 4.2E+00 PF-8488 2.2784 3.2690 1.59 4.2E+00 PF-8489 2.2784 3.2690 1.59 4.1E+00 PG-8188 2.2784 3.2690 4.1E+00 PG-8490 A.1E+00 PG-8490 3.2690 3.2690	TO LINE AND A PLANT				ž	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	EST HUMAN	SWISSPROT	SWISSPROT	SWISSPROT	EST HUMAN	EST HUMAN	SWISSPROT	N.	SWISSPROT	SWISSPROT	노	EST HUMAN	SWISSPROT	EST HUMAN	SWISSPROI	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPRO	N.	NT	
SEQ ID ORF SEQ Expression Top) Hit		op Hit Acession No.	П	2407	ווגפסטנו	P16444	P51826	543083	P13983	AI809013.1	P31368	009185		BE253668.1	BF247939.1		AB041523.1	D2RGR4	P28964		0 BF692425.1	0 P09716		0 061193	0 P38229	0 062653		no Crazes	O CASES			no X84518.1	00 AF055466.1	
Exam ORF SEQ Expression NO: 1D NO: Signal NO: 1D NO: Signal NO: 20566 33443 0.81 23084 36069 5.86 23148 2.7 18860 33443 0.81 23148 2.7 18968 32690 1.56 19868 32690 1.56 19868 32690 1.56 2 27349 31509 0.40 2 2734 31509 0.40 4 24604 31509 0.40 2 2754 32656 4.1 2 2010 33656 4.1 2 2010 33656 4.1 2 2010 33656 4.1 3 2010 32666 0.7 44 2361 0.7 45 23166 0.7 2 2010 32666 0 3 2010 32666 0 3 2008 32666 0			4.3E+00	4.3E+00	4.3E+00	4.2E+00	4.2E+00	4.ZE-00	4.25.400	4 2F+00	4.2E+00	4.1E+00	4 1E+00	A 1F+00	7 4510	4.15.45	L		L	1							1	l	1	1	1		1	
SEQ ID ID NO: I			0.81	5.86	2.7	4.18	0.92	S.	B 3	3 2	3 8	84.0	200	00.0	0.98	0.0	8.13	0.73	81.4 81.4	91.4	777	200	862	286	100	200								7
Exan SE on D S			33443	36069	$\ $		31116		32889	32690	34654	1 S	3100	31509	32843	32958	33602	1	33655	33656	33907	36152				1000	32304	32565	32564	32565	32933	35856	2844	
3 H Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z			899	3084	3148	18360	18440	18614	19868	19868	21748	22384	24604	24804	20001	20104	20615	20757	20760	20760	21007	22216	23108	3	23801	167 273	19759	19759	19759	19759	20080			
				1	1	l	\perp	L				_1	i		7661	7658	8183	8342	8345	8345	8572	9813	10888	10752	11644	3230	5718	91.49	7347	7347	7633	11227	3481	4343

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	Top Hit Descriptor	MRO-BN0070-300500-028-H05 BN0070 Homo sapiens cDNA	MRO-BN0070-300500-028-h05 BN0070 Homo sapiens CUNA	Dictyostellum discoideum non-LTR retrotransposon 1 Rep-b, pulytruten (8-8)	(pd) genes, complete cds		Human relection 1. Per and sodium phosphate transporter (NP13) gans, Role and	HYPOTHETICAL TRANSCRIPT (OPw4-bets-1) gene, exch 2	Human MHC class II lymprocya arreser (Co.	Xlaevis mRNA for M4 muscannic receptor	Homo saplens NF2 gene	Helicobacter pylori, strain J99 section 123 or 125	HYPOTHETICAL PROTEIN MJ0385	ozstroz xr NCI CGAP Kid11 Hamo sapiens cDNA clone INVAGE: 2000-201	HUMSUPY135 Human brain cDNA Homo sapiens cDNA clone 140	Arabidoosis thaliana DNA chromosome 4, contig fragment No. 39	Thermoplasma acidophilum complete genome; segment 3/3	Gallus gallus mRNA for hypoxia-Inducible factor-1 alpha, complete cus	AV761055 MDS Home saplens cDNA clone MDSBUETO o	7	Т	Psaudomonas aeruginosa PA01, section 8 of 525 of the complete and the translation start site has	Escherichia coli giycerophosphate dehydrogenase (gipt.) gene, hand and repressor protein (glpR) genes.	been verified (gipE), the translation start site has been venified (sipe, in the translation start site has been venified (gipE), the translation start site has been venified (gipE).	complete cds Combinandium fells heat shock protein 70 (HSP70) gene, partial cds	Dyperpending (1917) Special Series (1918) Outer surface protein (cspC) gane, partial cas	Barrella Durycon A Scares Infant brain 1NIB Homo saplens cDNA clone IMAGE:34940 5	Variable 16 Common families to Do. 1942 19 Smiles to Do. 1942 19	\neg	Trono septens inter-chings. The septens colors of Stratagene HeLa cell s3 937216 Homo septens colors clone IMAGE:627055 3 similar to	_ ·
	Top Hit Database Source	\top	FOT HIMAN	ST LIGHT	LN.		NT	SWISSPROT	5	Z	LN LN	Ž,	EWISCOROT	NAME OF THE	EST HOMEN	LIND LINE	12	17	NAME TO THE	EST HIMAN	LN	LN		<u> </u>	Į.	Z	LN1	EST HOMAIN	EST HUMAN	TN 4	EST_HUMAN
	Top Hit Acession No.		14357.1	14357.1					-			I	1		$\left\{ \right\}$	044725.1	41.161539.2	AL445065.1	(B013/40.3	4V761055.1	BF310310.1	AE004447 4	AESOCIATION		M96795.1	AF221538.1	1.42898.1	R19745.1	AAB92102.1	4505264 NT	AA190998.1
+	Most Similar (Top) Hit To BLAST E		3.9E+00 BE8	3.9E+00 BE	3.9E+00 AF298209.1		3 0F+00 UB1328.1	9 OF +00 P39289	3.9E 100 1402007 4	3.90.400	3.9E+00 X03003.1	3.95+00 1	3.8E+00 AE001552.1	3.8E+00 Q57830	3.8E+00 AI493849.1		3.7E+00/A	3.7E+00 A	3.7E+00/		_		3.85+00		3.6E+00	3.5E+00	3.5E+00	3.6E+00	3.5E+00	3.5E+00	3.5E+00
	Expression (3.25	3.25	0.83	1	0	2	4.74	3.83	2.17	4.91	13.68	1.13	. 0.53	1.3	13.41	0.8	1.24	3.37	0.64	3.65	3.65		3.08			1.1			1.04
	ORF SEQ E		31188	31189	92947	1	_	_			34207			32033	_			_		25581			1 34440		- 4	28176	1	34822		1_]]
	Exon SEO ID	ö	18505	18505	1	18034		19594	19782	20275	<u> </u>	L	1_	┸	┸	ı	1	1	L	L	١	3 21531			2020	L	1	1	1	20844	
	Probe		7002	5027		8889		7080	7277	7835	8863	11143	25.84	2727	7154	8084	4032	1909	11881	610	5605	6606	6606		40637	3 3	3200	3/3	RZCO	200	9364

Probe SEQ ID S NO: NO: NO: 1540 1540 1540 1540 1540 1540 1540 1540 1540 1540 10219 11288 11288 10219 10351	Exon SEO ID NO:	ORF SEQ ID NO: 34704 35030 26531 27510 37710 31388 33589 33589 31670 36701 3701 3701 3701 3701 3701 3701 3701 3	Expression Signed 1.1.04 1.1.04 1.1.04 0.84 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89		No.	Top Hit Database Source Source Source Source Source NT	Top Hit Descriptor Top Hit Descriptor Source MT Stressica napus RPB6d mRNA, complete cds NT Homo septiens formonosome 31 sognitarit NS2TO078 NT Homo septiens formonosome 32 sognitarit NS2TO078 NT Homo septiens formonosome 32 sognitarit NS2TO078 NT Homo septiens formonosome 32 sognitarit NS2TO078 NT Source Source Source NT Homo septiens formonosome 32 sognitarit NS2TO078 NT Homo septiens formonosome 32 sognitarit NS2TO078 NT Source Sour
9362			6.2	Ш		SWISSPROT	PERIPLASMIC INIFE HYDROGENASE SWALL SUBUNIT (WITE THE COLLEGE
9715	l_l	$ \ $		$ \ $		L Z	S.cerevisiae threonine deaminase (ILV1) gene, complete cus Congres latines OICCs gene for quantify cyclase C, complete cds
10145		35515	2.08	3.2E+00	0 AB016081.2	Z Z	Oryzas laupes Oroco garie in grantific promoter region. Sus scrofa choline acetyltransferase gene, promoter region.
11639	39 23963 74 24893	2 6	1.28		0 Q10441	SWISSPROT	HYPOTHETICAL 52.4 KD PROTEIN C12810.08C IN CHROMOSOME I
١٥		31435			0 Q10135	SWISSPROT	HYPOTHETICAL 142.5 KD PROTEIN CZ3EZ.02 IN CHROMOSOWE I

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7854	20294	33157	0.63	2.4E+00	BF667502.1	EST_HUMAN	602120856F1 NIH_MGC_56 Hamo sapiens cDNA clone IMAGE:4278012 51
7870	20309	33175	0.51	2.4E+00	P20126	SWISSPROT	RNA REPLICASE POLYPROTEIN
7870	20309	33176	0.61	2.4E+00	P20128	SWISSPROT	RNA REPLICASE POLYPROTEIN
8730	21185		2.43	2.4E+00	P26842	SWISSPROT	CD27L RECEPTOR PRECURSOR (T-CELL ACTIVATION ANTIGEN CD27) (T14)
8730	21165	34070	2.43	2.4E+00	P26842	SWISSPROT	CD27L RECEPTOR PRECURSOR (T-CELL ACTIVATION ANTIGEN CD27) (T14)
8786	21220		2.89	2.4E+00	AE001486.1	NT	Helicobacter pylori, strain J99 section 47 of 132 of the complete genome
9104	21536		1.47	2.4E+00	AW875126.1	EST_HUMAN	RC2-PT0004-031299-011-d06 PT0004 Homo saplens cDNA
9236	21668	34578	69.6	2.4E+00	P24091	SWISSPROT	ENDOCHITINASE B PRECURSOR (CHN-B)
10065	22466	35422	2.51	2.4E+00	P13673	SWISSPROT	SKIN GRANULE PROTEIN PRECURSOR
10065	22466	35423	2.51	2.4E+00	P13673	SWISSPROT	SKIN GRANULE PROTEIN PRECURSOR
10122	22523	35489	2.27	2.4E+00	X92511.1	TN	H.sapiens CTGF gene and promoter region
10201	22608		7.28	2.4E+00	P09099	SWISSPROT	XYLULOSE KINASE (XYLULOKINASE)
10258	22657		1.79	2.4E+00	BE326702.1	EST_HUMAN	hr63f06x1 NCI_CGAP_Kid11 Homo sapiene cDNA clone IMAGE:3133187 3'
10258	22657	35619	1.79		BE326702.1	EST_HUMAN	hr63f08.x1 NCI_CGAP_Kid11 Hamo sapiens cDNA clone IMAGE:3133187 3'
10428	22826			2.4E+00	Q51481	SWISSPROT	DENITRIFICATION REGULATORY PROTEIN NIRQ
10957	23386		1.66	2.4E+00	AF096872.1	TN	Capra hircus alphaS2-casein type C gene, intron 15
11116	23569	36612	2.1	2.4E+00	AF158652.2	LN	Fragaria x enanassa cytosolic ascorbate perceddase (ApxSC) gene, ApxSC-c allete, complete cds
12238	24735		1.25	2.4E+00	AF275948.1	NT.	Homo sapiens ABCA1 (ABCA1) gene, complete cds
1286	13821	26273	12.19	<u></u>	Z46724.1	L	G.domesticus artificial single chain antibody gene (L3)
4138	16668		1.39		AJ401081.1	TN	Bos taurus partial cytb gene for cytochrome b
4939	17450	29826	3.72	2.3E+00	AF134318.1	LN.	Mus musculus G7c (G7c) gane, G7c-b allele, complete cds
6121	18690		1.14	2.36+00	N86245 1	FST HIMAN	J7340F Human fetal heart, Lambda ZAP Express Homo sepiens cDNA clone J7340 6' similar to PROI YI CARBOXYPEPTIDASE
7939	20376	33243	10.66		_	NT.	Rattus norvegicus ATPass, Ca++ transporting, ubiquitous (Atp2s3), mRNA
8120	24993		2.16	2.3E+00	P07199	SWISSPROT	MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B)
8340	20755	33650	1.7	2.3E+00	X60265.1	LN	M.mazei dnak and dnaJ genes homologues coding for DnaK and DnaJ
							ALPHA-(1,3)-FUCOSYLTRANSFERASE (GALACTOSIDE 3-L-FUCOSYLTRANSFERASE)
х	21885		1.52		_	SWISSPROT	(FUCOSYLTRANSFERASE 4) (FUCT-IV)
10584	23031					SWISSPROT	ANNEXIN VII (SYNEXIN)
11037	23464					SWISSPROT	ENDOCHITINASE 3 PRECURSOR
11483	23841					EST_HUMAN	802069121F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4068173 6'
11483	23841				-	EST_HUMAN	602069121F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4068173 5'
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SEQ ID ORF SEQ Expression Top) Hilf Top Hit Acession No. Signal Value No. Signal Value No. Signal Value No. Signal Value No. Signal Signal Value No. Signal		Top Hit Descriptor Top Hit Descriptor	Synechococcus sp. PCC/942 copper transporting P-ATPase (ctaA) and ATP synthase epsilon subunit	Syneomococus spring of the property of the property of the person of the property of the prope	Included the Control of the Contro	602139470F1 NIH_MGC_46 Homo saplens cDNA clone IMAGE:478921.2	601693489F1 NIH_MGC_17 Homo sapiens cDNA clone immol	MAJOR ANTIGEN	LIPOPOLYSACCHARIDE 1,8-CALACTOSTETT 3-D-GALACTOSYLTRANSFERASE)	RETROVIRUS-RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIP) ASE	ENDONUCLEASE] RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE;	ENDONUCLEASE] EMBRYONAL FYNASSOCIATED SUBSTRATE (HEFS)	CHITINASE D PRECURSOR	Hamo saplens PRO0630 mRNA, complete cds	CYTIDINE DEAMINASE (CYTIDINE AMINOHYDROCKSE) (CCYTIDINE DEAMINASE (CYTIDINE AMINOHYDROCKSE) (CCC)	nuclear gene encoding mitochondrial protein	Chlemydomonas reinhardtil alternative oxidase 1 (nov.) 5 mg/l Refins nonvectous Actin-related protein complex 1b (Arpc1b), mRNA	Т	Т		7	Т	$\neg $	Τ	Т	Т	
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				8904	7666	7888	77.18	8530	8655	9088	9439	9439	9769	11345		11951	7270	2017	1974	9	4	437	437	610	2	6	62	6	18	8	62	8

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Probe SEQ ID S NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7082	19616	32411	1	1.6E+00	AW294881.1	EST_HUMAN	UI+H-BI2-ahr-b-04-0-Ui.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727611 3'
7694	20139	32995	2.58		BE697267.1	EST_HUMAN	RC0-CT0415-200700-032-c10 CT0415 Homo seplens cDNA
8653	21088		1.49	1.6E+00	Q46378	SWISSPROT	VIRULENCE FACTOR MVIN HOMOLOG
8915	21349	34266	3.5		AJ2971:	LΝ	Mus musculus SII, MAP_17, CYP_a, SCL & CYP_b ganes
9278	21710	34820	1.05	1.6E+00	11437222 NT	NT	Homo saplens hypothetical protein PR00971 (PR00971), mRNA
9278	21710	34621	1.05	1.6E+00	11437222 NT	TN	Homo sapiens hypothetical protein PR00971 (PR00971), mRNA
9863	24650		1.22	. ,	X52046.1	NT	M.musculus COL3A1 gene for collagen alpha-l
9663	24650		1.22	1.6E+00	X52046.1	NT	M.musculus COL3A1 gene for collagen alpha⊣
9855	22258	35198	1.67	1.8E+00	T41290.1	EST_HUMAN	ph8b6_19/1TV Outward Alt-primed hncDNA library Homo sapiens cDNA clone ph6b6_19/1TV
10167	22568	35533	0.95		AW835844.1	EST_HUMAN	QV4-LT0018-090200-100-d07 LT0018 Homo sapiens oDNA
10167	22568	35534	· 0.95	1.6E+00	AW835644.1	EST_HUMAN	QV4-LT0018-090200-100-d07 LT0018 Hamo sapiens cDNA
10553	23000	36984	2.63		P54817	SWISSPROT	CAPSID PROTEIN P40 [CONTAINS: ASSEMBLIN (PROTEASE); CAPSID ASSEMBLY PROTEIN]
10821	18774	31479	7.7	1.6E+00	AF005631.1	NT	Homo sapiens transglutaminase type I (Tgasel) gene, promoter region
11430	23791	36852	3.41	1.6E+00	AF104313.1	LN	Homo sapiens unknown mRNA
12644	24533		1.28		AV764043.1	EST_HUMAN	AV764043 MDS Hamo sapiens cDNA clone MDSDAH08 5'
8	12854	25044	4.43	1.5E+00	U53449.1	NT	Rattus norvegicus Jun dimerization protein 2 (Idp-2) mRNA, complete cds
243	12844	25258	2.13	1.5E+00	AE002201.2	NT	Chlamydophila pneumoniae AR39, section 32 of 94 of the complete genome
640	13204		2.37	1.5E+00	6752961 NT	TN	Mus musculus a disintegrin and metalioproteinase domain (ADAM) 15 (metargidin) (Adem15), mRNA
2308	14815	27332	6.54	1.5E+00	AJ131402.1	IN	Potato virus A RNA complete genome, Isolate U
3089	14815		1.44	1.5E+00	AJ131402.1	N	Polato virus A RNA complete genome, isolate U
3352	15898	28319	6.0	1.5E+00	AE001945.1	N.	Demococcus radiodurans R1 section 82 of 229 of the complete chromosome 1
6003	18577	31263	0.81	1.5E+00	A1655301.1	EST_HUMAN	tt12f10.x1 NCI_CGAP_GC6 Homo sapiens cDNA done IMAGE:2240587 3' similar to TR:000237 000237 HKF-1.;
							tf 2f10,x1 NCI_CGAP_GC6 Homo sepiens cDNA clone IMAGE:2240587 3' similar to TR:000237 000237
6003	18577	31264	0.81			EST_HUMAN	HKF-1.;
0650	19198		0.65		AL163202.2	LΝ	Homo saplens chromosome 21 segment H321C002
6744	19288		2.83	1.5E+00	R17879.1	EST_HUMAN	yg10e02.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:31693 5
7268	19773	32581			BE907771.1	EST_HUMAN	601502041F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903659 5'
7588	20018					EST_HUMAN	601478745F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3881555 5'
7602	20051					SWISSPROT	HYPOTHETICAL 118.4 KD PROTEIN IN BAT2-DAL5 INTERGENIC REGION PRECURSOR
7602	20051			Ì		SWISSPROT	HYPOTHETICAL 118.4 KD PROTEIN IN BAT2-DAL5 INTERGENIC REGION PRECURSOR
7812	20264	33115	0.58	1.5E+00	AA889259.1	EST_HUMAN	ak26f10.s1 Soares_testis_NHT Homo sepiens cDNA clone IMAGE:14071153'
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Exon ORF SEQ Expression Signal NO: Signal NO: 20642 33419 0.64 20879 0.643 0.643 20870 3438 1.01 20871 34669 0.66 20877 36289 8.51 22479 352842 2.0 22479 352843 1.01 22479 36572 1.12 224057 36574 1.4 32543 36574 1.4 40 36574 1.4 40 36574 1.4 40 36574 1.4 40 36572 1.1 40 36574 1.4 40 36574 4.0 41 36574 4.0 42 24876 24876 42 24876 2738 42 1740 2736 42 14786 27736 42 14740			1.5E+00 AI0	1.5E+00 AB	1.5E+00 AA	1.5E+00 BF	1.5E+00 N	1.05-T-00 A	4.5E+00B	1.5E+00 A	1.5E+00 A	1.5E+00 A	1.5E+00 X	1.5E+00	1.6E+00 [1.5E+00 /	1.51	1.4=+00	1.4E+00	1.45	-	1.4E+00	1.4E+00	1.4E+00	1.45.+00	1.4元+50	1.46.40	1.45+00	1.4E+00	1		
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Exon SEQ ID NO:		 	93410	100	-	34059	34438	35128	35289	0,000	33342	35572	3	†	30574			25040	25041			•							Ц		1	9
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				8117	8460	8778	8608	9787	9638	10078	10174	10174	11153	11280	11/80	11944 42185	12297		ि	ZZ	280	273		3 6	3 6	1 6	19	25	8	22	8	98

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Single Exon Probes Express	Top Hit Database Source	SWISSPROT	EST HUMAN	EST_HUMAN	LN	NT	NT	SWISSPROT	SWISSPROT	EST_HUMAN	TN.	LN	SWISSPROT	NININAN	EWISSPROT	LN	EST HUMAN	SWISSPROT	SWISSPROT	SWISSPROT	TN 4	LN.	N.	LN	ESI HUMAN	- LV	FN	SWISSPROT	LN	\L	EST HUMAN	TN	
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Single Exon Probes Expressed in Care	Top Hit Descriptor	H. sapiens ENUO gene, exon 1 Homo sepiens klotho gene, exon 1	PMO-ST0284-161199-001-401 ST0264 Homo saplens cDNA	PM1-HT0422-160200-007-910 H10422 From Complete cds	Rattus norvegicus synapse-associated process (2003)	Homo caplens chromosoms Z1 segment 1024	Bacillus haccdurans ganonia Divy, come	Human mKNA for NIANVEL 19019, Programmer CDNA	UNU-BINOUSE TO SEE THE RINAL 270 kDa precursor protein gane, compress cus	Wingary granders chromosome 21 Segment HS21C013	number of the property of segment HS21C013	Hano septems and the first in mote in FL 110749 (FL 110749), mRNA	Home saplens hypothetical protein FLJ11280 (FLJ11280), mRNA	Homo suprementation of the St. Homo supreme CDNA done (MAGE: 2359401 & Summer CONA done (MAGE: 2359401 & Sum	Wf64h11X1 Soares NrT-L Control of State	SW P531_NOWN CLEAST 10 of the complete genome XVIella fastidlosa, section 32 of 229 of the complete genome	Xylella fastidiosa, section 32 of 229 of the complete genome	H parahaemolyticus hphliM(A), hphliM(C), nphlix and men para	Homo saplens hypothetical protein FLJ10748 (FLJ10749), mrvna	R unicornis complete mitochondrial genome	African swine fever virus, complete genome	street (street) (street), (str	Emericella ridulans sterigmatocystin biosymmetro gettle cream. (1977), (stcV) and (stcW) genes, complete cds (stcI), (stcJ), (stcI), (7	Т		٦		Homo sapiens source carrier remarks and a mitrochondrial gene for mitrochondrial product	_	t .
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Section of the sectio	Top Hit Descriptor	Mile misculus mRNA for ER protein 58 (EP58 gene)	Mus misculus p47-phox dene, complete cds	Homo saciens collagen type XI alpha-1 (COL11A1) gene, exons 25 through 28	Marke mRNA for enolase (2-phospho-D-glycerate hydrolase)	RODINGOTARI NIH MGC 48 Home saplens cDNA clone IMAGE:4301322 5	Hames simplex virus type 1 (strain KOS) UL41 gene	Herpes simplex whus type 1 (strain KOS) UL41 gene	Arabidopsis thallana DNA chromosome 4, contig fragment No. 84		Mus musculus silent mating type Information regulation 1., N. Co. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Acetabularia caliculus mitochondriai COXI-like gene	VH=anti-cytomegalowirus glycoprotein B antibody 4D4 heavy chain variable region [numen, manning]	nti Anabidonete theliana DNA, 24 kb surrounding PFL locus	Homo saplans mRNA for KIAA0934 protein, partial cds	Arabidoosis thaliana DNA chromosome 4, contig fragment No. 27	Mine mineralus quanine nucleotide binding protein (G protein), gamma 3 subunit (Galgo), mineral	Т	Т	Т	mitochondrial protein, partial cds Home seniens cytochrome P4502C9 (CYP2C9) gene, 5' flank and exon 1	Homo saplens hypothetical protein FLJ11280 (FLJ11280), mRNA	de complete constant mana complete constant complete constant cons	Petroselinum crispum cytosolic glucose-6-phosphate dehydrogenase 1 (coor DT1)	Petroselinum crispum cytosolic glucose-6-phosphate dehydrogenase 1 (cG6PDH1) mRNA, complete cds	Т	Т	T	Dictyostellum discoldeum isopentenyl pyrophosphate isomerase (Ulpi) mrvvy, Chippocal	Xenopus laevis rhodopsin gene, complete cds	Cavia cobaya mRNA for serine/thredne Knase, complete cus	
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	Expression (Signal E		0.58	0.51	0.66	0.81	0.48	1.85	1.85	00'	0.94	3.29	0.85	0.85	0.93	1.54	5.33	22.47	1.13	1.75	4.44		4.44	4.26						1.88		1.85
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SEC D O.P.F. SEC Signal Noss Similar Top Hit Acession Top Hit Top Hit Acession Top Hit		Top Hit Descriptor	Manhantia nalymorpha genes for 269 rRNA, 55 rRNA, 185 rRNA, 5.85 rRNA and 265 rRNA	Malicinal may port mention from the sound of	Ummo saplens chromosome 21 segment HS21C018	Nodes security mucin-like protein MUC1 mRNA, complete cds	Vocated Alpai-CAM mRNA	Violitian of contract the second seco	Mus musculus Serf1 protein (Serf1), survival of motor neuron protein (Smn), neuronal apopusor in annotation of protein-res (Naip-res) genes, complete ods protein-res (Naip-res) genes, complete ods	1 SR TYPE 1	3-OXO-5-ALPHA-STEROID 4-DEHYDROGENASE 1 (STEROID STATE STEROID 4-DEHYDROGENASE 1 (STEROID STATE STEROID STATE STAT	3-OXO-5-ALPHA-STEROID 4-DEHYDROGENASE 1 (STEROID 5-ALPHA-REDUCIASE 1) (ST. 11 CT. 11 CT. 12 C	HTPO ITELIONE STORE STORE STORE OF THE STORE STO	WP.C42D8.3 CE04204; contains element MER22 MER22 repetitive element.	Rettus norvegicus neuromedin U precursu (Mino) pura	Xenopus laevis rhodopsin gene, camplete cds	Agarlous bisporus mRNA for tyrosinase	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, axu is 173, and 1	spliced	natio septents on an analysis management of septents of septents on the septents of septents on the septents of septents on the septents of septents o	Traja a misson property virus type 1 proving complete genome, isolate 95ML84	Hordeum vulgare gene encoding cysteine proteinase	and partial cds	Bos taurus micromolar calcium activated neutral prolease 1 (CATAT) gene, control of the calcium activated neutral prolease 1 (CATAT) gene, control of the calcium activated neutral prolease 1 (CATAT) gene, control of the calcium activated neutral prolease 1 (CATAT) gene, control of the calcium activated neutral prolease 1 (CATAT) gene, control of the calcium activated neutral prolease 1 (CATAT) gene, control of the calcium activated neutral prolease 1 (CATAT) gene, control of the calcium activated neutral prolease 1 (CATAT) gene, control of the calcium activated neutral prolease 1 (CATAT) gene, control of the calcium activated neutral prolease 1 (CATAT) general g	Bos taurus micramolar calcium activated neutral protease 1 (CAPN1) gene, exons 11-20, and pared was	Arabidopsis thaliana DNA chromosome 4, ESSA I FOA Collug Ingerican	Г		Π	Homo sapiene cell cycle protein (PA2G4) gene, exons 2 mough 3	Т	
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Single Exon Propes Expressed in Early	Top Hit Descriptor	ASSESSMENTING VIOC 7 Home canians con A clone IMAGE:3936382 5'	0010010011 NIT NIT AND THE CONTROL CONTROL OF THE PARTY NIT AND THE CONTROL OF TH	601581891F1 NIFL Microsoft	V.carten gene encounty vovoxopsii.	Human elasun (ELN) gara, pauta ous, an Linning (Linning) s	Insuita-like growth factor-binding protein 4 [cettle, pulmonary entery endothelial cettle, mRNA, 2028 nt]	(BL-CAM)	Homo sapiens endometrin-converting et trainers (TNA clone IMAGE:8887913)	ac79508.s1 Stratagene fung (#837.2.10) Fruing septembries China Chine IMAGE:4294727 6	60215378Z71 NIT MGC 65 Home septems CONA clone IMAGE:3848005 6	601443850FT NIH MICC OF DUMP September CDNA Clone IMAGE:3848005 5	60144385UFT NIFT MGC_03 number september of the complete cds	Rattus narvegicus minina la irranologicus mininasis epimerase (HDE) (MULTIFUNCTIONAL BETA-	PEROXISOMAL HYDRAI ASE LET TUNGELY SELVEN COLOR TO COLOR DE L'ATORION PROTEIN) (MFP) [INCLUDES: 2-ENOYL-COA HYDRATASE; D-3-HYDROXYACYL COA OXIDATION PROTEIN)	DEHYDROGENASE]	PEROXISOMAL HYDRATASE-DEHYDROGENASE-ETIMERASE (TDE.) (MICLIIII ONO 1707 1707 1707 1707 1707 1707 1707 170	DEHYDROGENASE J	UBIQUI IN CARBOATE I ENMINAL II INCOME I (COLUMNIA) SPECIFIC PROCESSING PROTEASE 11) (DEUBIQUITINATING ENZYME 11)	RC1-HT0229-181099-011-e06 HT0229 Home sapiens CUNA	Simian immunodeficiency virus Gag protein (gag) gene, complete cus, r u protein (ypu), such protein (env), and Vrf protein (vif), Vpr protein (vpr), Tat protein (tat), Rev protein (rev), Vpu protein (vpu), Env protein (env), and	Nef protein (nef) genes, >	Human immunodericiency virus type 1 (1117-1), iscaes 3 35,	(601497)831PT NIT INGO TO DUTING SEPTEMBER CONTROL (CIPEA) INRINA	Mus musculus chloride channel calcium activated 1 (Clear), in contraction or included 1 (Clear) mRNA	Mus musculus cnigride di anni e de de di anni e de d	AV689004 GNC Hone septents Conversion Conversion (XZPC) mRNA, complete cds	Kenopus lasvis Zuria pellurida C olycoprotein precursor (XZPC) mRNA, complete ods	Т	1
TO EXOIT PION	Top Hit Database Source		EST HUMAN	EST_HUMAN	Į.	LN	FN	SWISSPROT	L L	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	LN		SWISSPROT		SWISSPROT	SWISSPROT	EST HUMAN		TN	Z L	EST HUMAN	9 NT	. 1	EST_HUMAN	LN:	IN L	ES! HOMAN
Sing	op Hit Acesslon No.			E797716.1	11204.1	163721.1	\$52770.1	20273		4A775191.1	1.0E+00 BF679213.1	1.0E+00 BE868267.1	BE868267.1	D10852.1		002207		Q02207	P51784	BE147331.1		U42720.2		BE90769					U44952.1	AV758825.1
	Most Similar (Top) Hit BLAST E	Aging	1.0E+00 B	1.0E+00 B	1.0E+00 Y	1.0E+00 U63721.1	1.0E+00 S	1.0E+00 P20273	1.0E+00/	1.0E+00/	1.0E+00	1.0E+00	1.0E+00	1.0E+00		1.0E+00		1.0E+00	1.05+00	1			1.0E+00	1.0E+00	1.0E+00					1.0E+00
	Expression Signal		0.8	8.0	1.07	9.0	1.07	9.26	1.37	7.32	0.84	1.82	1.82	1.54		2.62		2.62	0.86	1.95		1.05	1.73	2.04	1.62	1.62				3.98
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	Top Hit Descriptor Top Hit Descriptor	Zh64e02.r1 Soares_fetal_liver_spleen_nvii	Human retinoblastoma susceptibility gene exons 1-27, complete cus	Hordeum vulgare gene encoding cysteine proteintase	THROMBOMODULIN PRECURSOR (TETOMOSCIENT)	EST389293 MAGE resequences, MAGIN Truin Segment COCO III mRNA, complete cds	Drosophila melanogasta Tegurani of G-protein signalling LOCO III mRNA, comptete cos	Drosophila metanogasta i ogutative polymerase gene, complete ods	Apple Increase and PROTEIN KINASE MINIBRAIN	BECKING HILLS OXIDOREDUCTASE ZK1280.8 IN CHROMOSOME II	Trough the seculentum putative Mi1 copy 1 nematode-resistance gains	LESTANDAININ RECEPTOR (BK-2 RECEPTOR)	BZ BYAD TAINING TO EDI-IIKe receptor tyrosine kinase rtk8	LATING ACID ACID ACID TO THE TRANSFERASE (N-ACETYLGLUTAMA LE NATURACIONALI ACID ACID ACID ACID ACID ACID ACID ACI	AMINO-ROB NOT THE ENDONUCLEASE IV (ENDODEOXYRIBONUCLEASE IV)	PROCESSESSES NIH MGC 35 Homo saplens cDNA clone IMAGE 3000401 3	٦	١.	Enteropraciations	Ilke protein, isolates office. Serial groES gene for GroES-like protein and partial groES-like	_	1			Homo sapiens X28 region free ALD Company of the Annual (CAMKI), Greatine transported (CAMKI), Gr	CDM protein (CDM), adrenoleukodystrophy protein > CDM protein (CDM), adrenoleukodystrophy protein (para) gene, exons 9,10,11,12 and optional segments b, c, d	Unosophilia martial cds	Triticum eastivum stripe rust resistance protein Yr10 (Yr10) gene, curipred (res)	Salmonella typhimurum audi michinany.		
Single Exon Probes Expresse	Top Hit Database Source	HUMAN	EST HUMAN		SWISSPROT	EST HUMAN	N	N	LN	SWISSPROT	SWISSPROI	N	SWISSPROT	NT	SWISSPROT	SWISSPROT	EST HUMAN	EST HUMAN		FN.	NT EST HUMAN	EST HUMAN	SWISSPROT	NT.		TN	!	E E	IN.	EST_HUMAN	
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	Most Similar (Top) Hit BLAST E	1.0E+00	1.0E+00	1.0E+00 L11910.1	1.0E+00 Z970ZZ.1	1.0E+00 P16306	1.00	9.8E-01	9.95-01	9.9E-01 P49857	9.9E-01	98-01	9.96-01	986	9.8E-01	9.8E-01	9.8E-01	9.8E-01		9.8E-01	9.8E-01	9.8E-01		9.85-01		9.8E-01	L	9.7E-01			
	Expression ('Signal B	19.75	19.76	1.29	1.66	2.9	2.5	1.16	1 28	8 99	0 94	,	2,63	200	1 69	000		200		4.46	4.46	1.11	1.11	0.89	3	7					
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	Top Hit Descriptor	Botrytis ginerea strain T4 cDNA library under conditions of nitrogen deprivation	Bromus inarmis putative cytosolic phosphoglucomutase (pgm.) mRNA, complete cds	Bromus Inermis putative cytosolic phosphogluconnuess (Perr.) Bromus Inermis putative cytosolic phosphogluconnuess (Perr.)	PM2-UM0063-24030U-006-112 Omora position 2448-2894	Parvovirus B19 DNA, paremi C, 99,000 Parvovirus B19 DNA, paremi C, 99,000 Parvovirus B19 DNA, paremi C, 99,000 Parvovirus B19 DNA, paremi C, 90,000 Parvovirus P19 DNA, paremi C, 90,000 Parvovirus	Parvoirus B19 UNA, pausiri C, series 4, ESSA I FCA contig fragment No. 6	Arabidopsis thallana Divy complete ods	Heilx lucorum pressummer of plastid-like DNA (IR-A)	P. Hardparum Compleme CDNA clone NPDBAG06 5	AV762606 NPD Home sablens cDNA clone NPDBAG08 5	AVV52003 N. C. Transcond profelo 2 (CEP2), mRNA	Homo sapiens certification in the property of the part	Sphyrna tiburo NADH denydrogenaso canamina i	protein, partial cds	- 1	\neg	\neg	(601885163F1 NITT MOCO CONTRACTOR Subunit (170B) gene, partial cds	Bartonella ciarrogerad i vivi Program Program (ZFP1) mRNA, complete cds	\neg	- }	Homo sapiens epidential grammary (Figure 1) Anno sapiens epidentia	\neg	П	Bowne papillomanrus type 2, Compress 1 (NFKB1) gane, Compress 1 (NFKB1) gane, Compress 1	Home saplens nuclear facion of happen is in the saplens nuclear faci	cds Spodoptera frugiperda methylenetetrahydrofolate dehydrogenase mRNA, compress cus	on price cost in a narester infected enythrocyte surface entigen (MESA) gene, comprise cos	$\neg \tau$	Γ'	Homo saplens inositol 1,4,0-urpriosprised		
Single Exon 1	Top Hit Database	Source	IN LA		EST HUMAN	LZ.	NT	LΝ	NT	N	EST HUMAN	EST HUMAN	E		LN TN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT	TN	EST HUMAN		7 NT EST HIMAN	N-	N.		IN IN		NT EST HUMAN	I N	TNIN	::(00	
Burg	Top Hit Acession		T	T					-		V752605.1		21722		U91423.1	BE902340.1	BE902340.1	AW861102.1	RF218771.1	AF165990.1	AF080595.1	BE781251.1			BE071172.1	M20210 1	INCOC 10:		1.30108.1	AF270648.1	9.3E-01 AROP 0-0-0	B.3E-O1 ALCO SOLO		
	Most Similar (Top) Hit To	BLAST E Value	9.7E-01 AL	9.6E-01 AF197925.1	9.6E-01	9.8E-01 AW 1890	9.0E-01 2	O RE-01 297341.2	9.0E-01	X PO BE	9.0L-01	0 RE-01	100	9.65-01	9 6F-01		0 5E-01	9.35 0.6E-04	_		1	1	2 34.0		9.3E-01	1	9.35-01		9.35-01				5 9.3E-01	
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Table 4

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Single Exon Probes Expressed in Caris	Top Hit Descriptor Top Hit Descriptor	Aedes triseriatus putative large subcilir.	60144 1300 1 1111 MGC 58 Home saplens cDNA clone IMAGE:4041303 5	Hirman keratin keratin 2A (epidermal ichthyosls bullosa of Slemens) (NALZA) III CA (Epidermal ichthyosls bullosa of Slemens)	Mans musculus solute carrier family 30 (zinc transporter), member 4 (Sicolar),	1801461163F1 NIH MGC 66 Home saplens cDNA clone IMAGE. 3001501	N crassa valy-tRNA synthetase (cyt-20/un-3) gene	Arabidopsis thaliana DNA chromosome 4, contig tragities it vo. 30 Arabidopsis thaliana DNA chromosome 4, contig tragities it vo. 30	Homo sapiens lysosomal apyrase-line process on A done IMAGE:3578219 3' similar to SW:NU5M KYBB	7558608.X1 NCI_CGAP_KIG11 Homo September CHAIN 5:	_	_	Г	AB200G8R Infant brain, LLNL array or LJ: NV. Common saniens dDNA clone LLAB200G8 6'	AB200CBR Infant brain, LLNL array of Dr. M. Soates Third Traine and Competending Blutamicum secA gene for SecA protein, compete cds [Competending Blutamicum secA gene for SecA protein, competending Blutamicum secA gene for SecA protein competending Blutamicum secA gene for SecA gene	Home septens FAT temor suppressor (Drosophila) routing to any	Human pre-B cell stimulating factor homologue (SDF1b) mKNA, compress confined was Human pre-B cell stimulating factor homologue (SDF1b) mKNA, COMPRESS (TTI HEAVY CHAIN H3)	INTER-ALPHA-TRYPSIN INHIBITOR FILENCE CHAIR CHAIR MAGE: 1336862 3				Homo sapiens uncouping process (OKFZP664M2423), mRNA	Homo sapiens DN 4 chromosome 4, contig fregment No. 27	Arabidopsis tratiana Dira curante de partial cds	Homo saprens regions in the homodomain protein (lim5) mRNA, complete cds	Danio refro Lim class i minocomina de Campleta dis	Xenopus izevis gene to accept the majorite (1 homolog (L1-CAM) gene, complete cds; putative prount	Fugu rubripes neural cell agnesion maccano como segregation protein SMC1 homolog (SMC1) gene,	(PUT1) gene, partial cas, minose-specific complete cds; and calcium channel alpha-1 subunit?	Rebuit Mind It against 1 the state of the st	
Exon Prop	Top Hit Database Source	Z	EST HUMAN	EST HUMAN		NAME TO FOR	-1	Z	Ę		EST HUMAN	NT IN		EST_HUMAN	EST_HUMAN		N L	SWISSPROT	EST HUMAN	N.	N	TN	5 NT	TN	TN	NT	TN		ŢN	TN	
Single	Hit Acession No.	П			4557702 NT	643		34703.1 484585.2	144209B3 NT		9.2E-01 BF593251.1	1		26418.1	26418.1	017428.1	4885228 N I	30000.1	Q61704 A A B O B R 23 1				7661628 NT	AL16151			D38621.1		AF026198.1		
	Most Similar (Top) Hit BLAST E Value	9.3E-01 AF271207.1	9.2E-01 BE622702.1	9.2E-01 BF129973.1	9.2E-01	9.2E-01	9.2E-01 BF037586.1	9.2E-01 M64703.1	8.25-01	9.25-01	9.2E-01 B	9.2E-01 B	9.16-01/	9.1E-01 T		9.1E-01	_		9.1E-01	8.10	9.10	0 1F-01	0 10 0	9.0E-01	90F04	P - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	0 00	9.00	9 0.10	8.98-90	
	Most (To Signal BL/ V	1 97			0.62	2.84	4.91	0.55	0.97	3.68	1.71	2.05	3.92	1.12	1.12	1.07	1.96	1.51	3.85	18.93	1.84	42.07	12.97	0.02	4 78	0.10	0.00	1.37	o c	4.0	
		+	76474	1	+	+	34572	32315	35145	35588	35678	36862	27508	28134	28135	-	30042	31776	32172	33398	33597	+	+	28138	-	29308	331/1	1		3122/	1
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Chicoco II care	Top Hit Descriptor	601882708F1 NIH_MGC_67 Homo saplens cDNA done IMAGE: 4085210 5	601682708F1 NIH_MGC_57 Homo sapiens CUNA Golde INACE: 1052E1	Homo saplens PTS gene for 6-pyruvoy/tetrahydropterin synuriassa, composition of the for mitochondrial	Oithona nana cytochrome-c oxidase subunit I (coxi) garle, pared cus, miss	product	Xyfella fastidiosa, seculor ad of 223 of 225 of the complete genome.	Chlamydophila prediction and of REDUCTASE	PUIATIVE F420-DEFENDENT Washe complete dis	Pseudorables wins Ex grown complete cds	Homo sapiens per ovasoring to the from plasmid PMA1	M. seruginosa (noto 227, 7)	Symeonogens ap. 1 occasion partial cds	Homo saprens 30.31 (30.01) sample factor 1 (ATBF1), mRNA	Homo subtain A 1 and sertiens cDNA clone IMAGE:1076877	nn05f11.31 NCI_CGAL_TITE I I I I I I I I I I I I I I I I I I	Pseudomonas aeruginosa topoisofiterase (up), puntanto unitario Otho, ortho-halobenzoate 1,2-	halobenzoata 1,2-dioxygenase beta-1SP protein Orion, Cristo (Cristo), Cris	dioxygenase apna-15F grown Onio (2007). The complete genome per annual serudings PA01, section 524 of 529 of the complete genome	1 00218554171 NIH MGC 45 Homo saplens cDNA clone IMAGE 4309908 3	602185541T1 NIH MGC 45 Homo sepiens cDNA clone IMAGE: 4308900 3	QV0-NN1021-100800-337-c03 NN1021 Homo saptens cDNA	801823884R1 NIH_MGC_79 Homo saplens cDNA clone IMAGE-10435373	801823884R1 NIH MGC 79 Homo sapiens cDNA clone IMAGE: 404330213	AV661898 GLC Homo sapiens aDNA clane GLCGYGU/ 3	Rat IGFII gane for insulin-like growth factor II	2d44e03.r1 Soares fetal heart NbHH19W Home sapiens curve ciurie minosis.	Arabidopsis thaliana DNA chromosome 4, contig fragment No. Co	Drosophila melanogaster merlin (Dmerlin) mRNA, complete cos	Chicken lipoprotein lipase gene.	Chicken lipoprotein lipase gene	polyprotein [Coxsackle B4 virus CB4, host=mice, E2, originally derived iron Euwards CE1 inches	Genomic RNA Complete, 7397 nt] Gene, canadansis recombination activating protein 1 (RAG-1) gene, partial cds		
Single Exon Probes Expressed in	Top Hit Database Source	EST HUMAN	Т	Т		NT		П	ISSPROT		NT	N	۲	LN.	ĮN.	EST HUMAN			F.	NI FET HIMAN	NAM ILL TAR	EST HIMAN	EST HI IMAN	EST HIMAN	EST HUMAN	Ļ.	EST HUMAN	152		15	12		Į,	Ξ	
Sing	Fop Hit Acession No.	E24 7030 4	T	3F-21 / 838,1		AF259667.1	AE003944.1	AE002188.2	026350	AF310617.1	M81182.1	728337.1	D90911.1	AF106953.2	5901893 NT	AA595863.1			AF121970.1	AE004963.1	BF5/0109.1	BF5/0169.1	BF303970.1	BF10/094.1	8.7E-01 BF10/094.1	X47049.4	8.6E-01 X17012.1	N GBUGB. I	8.6E-01 ALTOTOO.2	8.6E-01 U497.24.1	8.6E-01 X60547.1	1 Xecoox 1	01 S76772.1	01 AF143732.1	-
	Most Similar (Top) Hit BLAST E Value	1			8.85-201	8.95-01		8.9E-01	_						8.7E-01	8 7E-01			8.7E-01	8.7E-01	8.7E-01	8.7E-01	8.75-01	8.75-07	8.75-01	0.70							8.6E-	8.6E-	
	Expression (1	9:0	0.0	0.58	- 69	2.72	338	3.18	0.87	0.56	2.11	2.13	1.41	-	8 1	200		3.27	1.89	0.95	0.95			3.46	2.26		5.61				8.11	1 0.63		
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SECON DR PSEQ Expression Top Hit Acession Top Hit Acession Top Hit Acession Database Secon DR NO: Signal Nat Similar Nat Signal Nat Signa		Top Hit Descriptor	Grus canadersis recombination activating protein 1 (RAG-1) gene, partial cds	Halischacter pylori 26695 section 69 of 134 of the complete genome	Becillus halodurens genomio DNA, section 12/14	Rehvins cherea strain T4 cDNA library under conditions of nitrogen deprivation	Arabidoosis thaliana (ecotype Columbia) spl2 gene, exons 1-5	we08h02 x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:2340827 3	Rentertanhage D3, complete genome	601067107F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453505 5	SEGMENTATION PROTEIN PAIRED	SEGMENTATION PROTEIN PAIRED	Homo saplens human immunodeficiency virus type I enhancer-binding protein 1 (FIVER 1), IIIIVAN	Rethis novecious protein tyrosine phosphatase, non-receptor type 6 (Piph5), mrdVA	Strentonocus thermophilus bacteriophage Sfi11, complete genome	Cueptrocesses Complete genome	Turman fibriblish growth factor receptor 3 (FGFR3) gene, intron 7	Human filhmhlast growth factor receptor 3 (FGFR3) gene, intron 7	Mamastra brassicae pheromone binding protein 2 precursor (PBP2) mRNA, complete cds	manorine sharel complete denome: segment 6/6	Thermis thermobilius cytochrome c-552 (cycA) and CycB (cycB) genes, complete cds	Arabidoosis thallana DNA chromosome 4, contig fragment No. 18	Nicotiana tabacum mRNA for chloroplast ribosomal protein L10, complete cds	Strenbmyces antibloticus polyketide biosynthetic gene cluster	Strentomyces antibioticus polyketide biosynthetic gene cluster	Arabidoosis thaliana DNA chromosome 4, contig fragment No. 40	mno1112 v5 NCI CGAP Co9 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains I nr. vi In-	repetitive element:	Urosopnila metarogasca de promos a finouch 12 and bartial cds	Mus musculus neuro-44 gene, except and passes 1270510 to 1283409 (section 109 of 148) of the	Methanopacenum una modulos opinios	Phytophthora infestans milechondrion, complete genoune	5 more High hydrolase (FHIT) gene, exon 5	Homo sapiens FRA3B common fragile region, diadetrosine urpriospriate right common fragile region, diadetrosine urpriospriate right. The RAHIR norwegicus mRNA for RPHO-1, complete cds	
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6	Top Hit Descriptor	Mus musculus trophinin (Trin) gene, complete cds	L3-CT0218-161199-031-C08 CT0219 Homo septens cDNA	Homo sapiens mRNA for KIAA0674 protein, partial cds	S.cerevisiae chromosome VII reading frame ORF YGL062w	S.cerewisiae chromosome VII reading frame ORF YGL062w	Rattus norvegicus mRNA for RPHO-1, complete cds	G.gallus mRNA for C-Serrate-1 protein	G.gallus mRNA for C-Serrate-1 protein	Amanita muscaria mRNA for SCIII25 protein	CM4-HT0243-081199-037-e01 HT0243 Homo sepiens oDNA	S.cerevisiae MET, LEU4, and POL1 genes encoding MET4 protein, apha-tsoproplymatate (alpha-iPM) sunthetase (partial).	Homo sapiens thioredown-related protein mRNA, complete ods	MCKUSICK-KAUFMAN/BARDET-BIEDL SYNDROMES PUTATIVE CHAPERONIN	MCKUSICK-KAUFMAN/BARDET-BIEDL SYNDROMES PUTATIVE CHAPERONIN	OVARIAN TUMOR LOGUS PROTEIN	w/14d02.r1 Scares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:262195 6' similar to gb:M36072 60S RIBOSOMAL PROTEIN L7A (HUMAN);	Mus musculus mRNA for NIPSNAP2 protein	Mus musculus TANK binding kinase TBK1 (Tbk1) mRNA, complete cds	Homo sapiens MHC class 1 region	Homo sapiens MHC class 1 region	Homo sapiens protein tyrosine phosphatase, non-receptor type 2 (PTPN2) mRNA	Drosophila melanogaster Na/K-ATPase beta subunit isoform 4 (JYbeta2) mRNA, complete cds	MELANOCYTE STIMULATING HORMONE RECEPTOR (MSH-R) (MELANOTROPIN RECEPTOR) (MELANOCORTIN-1 RECEPTOR) (MC1-R)	Mus musculus putative collagen alpha-2 (XI) chain (COL11A2) gene, partial cds	NEURONAL MEMBRANE GLYCOPROTEIN M6-B	NEURONAL MEMBRANE GLYCOPROTEIN M6-B	Homo saplens KIAA0417 mRNA, complete cds	CYTOCHROME B	Drosophila melanogaster putative inorganic phosphate cotransporter (Plcot) gene, partial cds; putative sodium channel (Nach) and putative amylase-related protein (Amyrel) genes, complete cds; and putative serine-enriched protein (gprs) gene, partial cd>	
	Top Hit Database Source	NT	EST_HUMAN	TN	TN	LN	۲	NT	NT	NT	EST_HUMAN	F	ΙΝ	SWISSPROT	SWISSPROT	SWISSPROT	EST_HUMAN	NT	F	NT	TN	NT	NT	SWISSPROT	IN	SWISSPROT	SWISSPROT	TN	SWISSPROT	Ŕ	
5	Top Hit Acession No.	AF145589.1	4W376990.1	4B014574.1	272584.1	272584.1	AB000489.1	X95283.1	X95283.1	AJ010142.1	AW379433.1	7424084	AF052859.1	021170	093170	P10383	H87398.1	AJ001261.1	AF191839.1	AF055068.1	AF055068.1	4506290 NT	AF202634.1	001727	U16790.1	Q13491	Q13491	AB007877.1		AF022713.2	
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	Top Hit Descriptor	P saffwum GR gene	Giardia lambila variant-specific surface protein G3M-B (vspG3M-B) mKNA, paruar cos	SMALL HYDROPHOBIC PROTEIN	AV700860 GKC Homo saplens cDNA dane GROUNE 12 3	ATTIP 4 keto I - rhamnose reductase, complete cds	Streptococcus mutans DNA for sigma 42 protein, or company of the strength of t	HSC1KH041 normalized Infant brain cDNA Homo sapiens cDNA civile China.	EST371637 MAGE resequences, MAGE From Saprieus School Complete cds	Rettus norvegicus transmembrane receptor Unicon I innico, compressiones transmembranes receptor Unicon I innicon in compressiones transmembranes receptor Unicon I innicon I	Sphenodon punciatus alpha enclase mKNA, parua cos	INTERLEUKIN-8 PRECURSOK (II-8) (8-CELL OF INVOICE)	BETA-2) (HYBRIDOMA GROWTH FACTOR) Thermoplasma acidophilum complete genome, segment 4/5	HYPOTHETICAL 60.7 KD PROTEIN C30D11.08C IN CHROMOSUME 1	716406.x1 Soares NSF F8 9W OT PA P S1 Homo sapiens curva cigne invocations	D discoldeum racGAP gene	MUSCLE CALCIUM CHANNEL ALPHA-1 SUBUNI (MILL-ALT-12)	Arabidopsis thallana 1-amino-1-cyclopropanecarpoxylate synthesis (1997)	Landon large surkunit (AGP-L1) mRNA, complete cds	Lycopersicon hirsutum ADP-glucose pyropriospriu ylase rango commerciality protein class II alpha Mus musculus major histocompatibility locus class II region: major histocompatibility protein class II alpha in the musculus major histocompatibility locus class II region: major histocompatibility protein class II alpha	chain (IAalpha) and major histocompatibility protein class II beta Chain (LDCC) screen butyrophilin-like (NG9), butyrophi	CITRATE SYN I TRADE.	(Galnac-T7) (GALNAC-T7), mRNA	Homo sapiens PRO1975 mRNA, complete cds	Coturnix coturnix japonica sub-species japonica bear acut military.	Coturnix coturnix laponica sub-species Japonica Detaración de la coturnix coturnix labonica sub-species Japonica Detaración de la coturnix coturnix labonica sub-species Japonica Detaración de la coturnix coturnix la coturn	RAFFINOSE INVERTASE (INVERTASE)	1	y/24b02.s1 Soares fetal liver spleen Tinning agricultures of the spleen Tinning agricu	
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Exam ORF SEQ NO: NO: NO: D NO: D NO: NO: D NO: D NO: NO: D NO: D NO: NO: D NO:		<u></u>	+	1.21	6.73	4.56	- 62 ,	8.8	200	16.0	8.0	0.88		1.49	2.58	2.58	1.49	3.73	3.73	1.9	1.9	47.5	4.03	1.99	1.08	1.13	0.83	5.58	5.7	1.7		
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Single Exon Probes Expressed in Early	Top Hit Descriptor Top Hit Descriptor Top Hit Descriptor Top Hit Descriptor	tri14bus.x i No	and Calcutta-rstR-b (rstR-b) genes, complete cds	Vibrio cholerae phage CTXphi Calcutta-rstr-a (survay and United States) (survay and Hamo sapiens chromosome 21 segment HS21C046	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 51	Arabidopsis thaliana DNA chromosome 4, control inguitoring MAGE: 4154340 5'	602018456F1 NCI CCAR Blind Hams china clone IMAGE:3834174 5	601573026F1 NIH MIGG 9 Hall Bay 23 Home sapiens CDNA clans IMAGE:625297 3' similar to	AP67h01.S1 STRAIBGENE BINGLING TO TO THE TA SUBUNIT:	SW:1074_MOOST - TOO TOO TOO TOO TOO SALES OF A Hone saplens NY-REN-45 antigen (LOC51133), mRNA	Botryds cherea strain T4 cDNA library under conditions of marger and party chereas strain T4 cDNA library (Chah) mRNA	Mus musculus complement component 1 Innibital (C.181), 111.0. Mas musculus complement component 1 Innibital (MAGE: 2043985 3)	ta/3h01x1 NCI_CGAP_Lym5 Home suprems Connections	HYPOTHETICAL PROTEIN HKLF1 (INC.)	Aeropyrum pemix genomic DNA, securit 3/1	Borrella burgdonen (secuent of of of secuent of of secuent of secuent of of secuent of of secuent of of other order	Homo saplens H101/ mixiva, compress 2 (LIMK2), transcript variant 2a, mRNA	Homo saplens Lilvi dollifati Minasa 2 (LIMK2), transcript variant 2a, mRNA	Homo saplens Lim contain ninescent.	Mus musculus anugen (CD72) dehe	Mus musculus anugent Co. 1 / 8	Lycope accorded to clathrin heavy chain	United by Series (Scr B) gene, complete cds	V. alginayucus saurase (scrB) gene, complete cds	V. sugnitud account of the Alpha Alpha Integrity gene, expn 7	7	- 1	1	╗	N. tabacum Neir 4th 15 minus	Fowipox virus, compress some	
Exon Probe	Top Hit Database Source	HUMAN	Z		2 2	LZ	EST HUMAN	EST HUMAN		186.1 EST HUMAN	2 2	2 5	EST HUMAN	SWISSPROT	Į.	F	N	N	NT.	N	NT	Ę	Ā	N N	도	¥	EST HUMAN	EST HUMAN	NT TN	NT	NT	
Single	Top Hit Acession No.		7.4E-01 AF112538.1			7.4E-01 AL161551.2	T	T	_	7.4E-01 AA187986.1		AL112699.1	1007	٠,,,,	P09710	AE001168.1	AF225421.1	8051619 NT		135772.1		1 AJ011418.1	1 Z14133.1		11 M26511.1		1 AA678019.1					
	Most Similar (Top) Hit BLAST E Value	7.4E-01 AI598146.1	7.4E-01 A	7.4E-01	7.4E-01 #	7.4E-01	7.4E-01	1.46.01		7.4E-01	7.4E-01	7.4E-01 A	7.4E-01	7.4E-01	1	1	7.35-01						l				L	L				
	Expression Signal	1 42	0.71	0.65	7.05	1.14	1.14	50.1	8.	1.36	0.84	1.64	4.61	1.95	0.59	97.0	0.95	71.7	1.5 g											2.82		
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	Top Hit Descriptor	Giardia intestinalis variant-specific surface protein (vsp417-8) gene, vsp417-6/A-I allele, complete cds	Human mRNA for KIAA0309 gene, partial cds	1902035589F1 NCI_CGAP_Bm64 Homo septens cDNA clone INA CE. 1 CGAP_Bm64 Homo	Homo saplens IA-2 gane, Intron 18	Dichocaulus viviparus nematode polyprotein antigen precursor (DVA) mKNA, comptere cus	1 mesenteroldes gene for sucrose phosphorylase (EC 2.4.1.7)	Lynn saniens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, 134 protein,	JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes.	complete cds, and L-type carouni the man and the protein, JM4 protein, JM5 protein, T54 protein, Line protein, JM5 protein, L64 protein	Indino septems and comparation-dependent protein, triple LIM domain protein 6, and synaptophysin genes,	complete cds; and L-type calcium channel a>	Streptococcus thermophilis bacterlophege Stri 1, compaste genome	Solanum tuberosum cold-stress Inducible protein (C17) gene, comprete cus	Human herpesvirus 3, complete genome	Orwatolagus cuniculus RING-finger binding protein mRNA, partial cds	ACCULATION MICH MICH SEPTEMB CON CHONG IMAGE: 4276381 5	Refine norwalique cytocentin mRNA, complete cds	A comman me neurity denormic DNA, section 6/7	Aeropyrum pening genering serving and property and penson release channel (ryanodine receptor) alpha	Isoform(RyR1), complete cds	Homo saplens partial TCF-4 gene for 1-cell transcription ractual 4, exerts 10	Mus musculus otogelin (Otog), mknA	Mus musculus suggetti (Cog), titt ach	802155438F1 NIT MCC_83 Hand saplens cDNA clone IMAGE:4296344 6	Dozembila malanogaster 6-pyruvovitetrahydropterin synthase (pr.) gene, complete cds	Dioschille Heart 2007 14-d09 BT0567 Homo saplens cDNA	PC1-B10567-301299-011-409 BT0567 Homo sapiens cDNA	FOLVORANET NIH MGC 70 Hamo saplens cDNA clone IMAGE:3898495 6	Human T-ceil receptor germline gamma-chain J2 gene	zu06h11.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:731109 3	Homo sapiens mRNA for KIAA0614 protein, partial cds	
	Top Hit Database Source	Į.	TA.	EST HUMAN		TIM	12			١		L	Į.	5	12	1	1444411	ESI HOMAN	z !	Z	뉟	F	LNT.	본	EST HUMAN	EST HUMAN	Į.	EST HUMAN	ESI HUMAN	ES L TOWNS	EST HIMAN	LV	
`\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	Top Hit Acession No.	REFERRE 1	T							7.2E-01 AF196779.1		1 E106779 1	E15BROO 2	180833 4	TIMETER	0.00708	4F.Z35051.1	7.2E-01 BF670061.1	U82623.1	7.2E-01 AP000063.1	7 15-01 [021070.1	7.1E-01 AJZ70777.1	7305360 NT	7305360 NT	BF681034.1	BF681034.1	-1	ш,	,		M12961.1		
-	Most Similar (Top) Hit BLAST E Value	7 20 04 450	7 OF 04 ABOOSSO7 1	7.05.04.0	1.2E-01 P	1.2E-01 A	7.2E-01 U02568.1	7.2E-01 USUS14.1		7.2E-01		7 25 04	7 25 24 7	7 10-37 7	1.45.7	7.2E-01	7.2E-01						7.1E-01	7.1E-01								7.0E.01	
	Expression Signal		301	97.	8.	0.62	0.59	2.81		8.97		0	0.00	277	88.0	0.43	-			3.05	70 77					1.83	7.41	1.12					1.14
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Top Hit Descriptor	Homo sapiens mRNA for KIAA0614 protein, partial cds	Homo sapiens chromosome 21 segment HS21C101	Kylella fastidicsa, section 67 of 229 of the complete genome	Arabidopsis thaliana mRNA for chlorophyll b synthass, complete cds	Escherichia coli K-12 MG1655 section 143 of 400 of the complete genome	AV763842 MDS Hamo sapiens cDNA clone MDSCHE04 5'	AV763842 MDS Homo sapiens cDNA clone MDSCHE04 5	Designation of Market Complete genome	Descriptions of the proof, complete (CAFRG1) gene, complete cds and translational regulator gene, partial	ביים ומוחדים מוחיבים היים היים היים ביים ביים ביים ביים	Candida albicans squalene epoxidase (CAERG1) gene, complete cds and translational regulator gene, partial	spo	hn28a09.s1 NCI_CGAP_Gas1 Homo sepiens cDNA clone IMAGE:1085176 3'	Chlamydla muridarum, section 3 of 85 of the complete genome	Branchiostoma belcheri BbNA3 mRNA for notochord actin, complete cds	Drosophila melanogaster mRNA for A-kinase anchor protein DAKAP 550, parua	601177333F1 NIH_MGC_17 Home saplens cDNA clone IMAGE:3532328 5	Strongylocentrotus purpuratus myosin V, complete cds	Arabidopsis thaliana DNA ohromosome 4, contig fragment No. 69	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 69	Homo sapiens DAN gene, complete cds	Hamo seplens DAN gene, complete cds	Homo sapiens hypothetical protein LOC63929 (LOC63929), mRNA	FORKHEAD BOX PROTEIN C2 (FORKHEAD-RELATED PROTEIN FKHL14) (MESENCHYME FORK HEAD PROTEIN 1) (MFH-1 PROTEIN) (TRANSCRIPTION FACTOR FKH-14)	Giardia intestinalis carbamate kinase gene, complete cds	Synechocystis sp. PCC6803 complete genome, 27/27, 3418852-3573470	di75a05.st Scares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1402256 3' similar to gb:X56411_ma1 ALCOHOL DEHYDROGENASE CLASS II PI CHAIN (HUMAN);	Rat(hooded) protactin gene : exon iii and flanks	Homo saplens hevin (HEVIN) mRNA	Homo saplens mRNA for KIAA1345 protein, partial cds	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds
Top Hit Database Source	N.	Z	LN PA	Į	LN	FST HUMAN	NAM IN TAR	TO LOWER	ž.	H		IN	EST_HUMAN	LN	ΤN	NT	EST_HUMAN	ΝΤ	LN	۱	NT	NT	TN	SWISSPROT	N	N.	EST HUMAN	IN	¥	LN LN	IN
Top Hit Acession No.	\B014514.1	1 183301 2	Γ			Γ	T	4V /63842.1	9630464 IN I	189874 1		U69674.1	AA593530.1	AE002271.2	AB035662.1	Y18278.1	BE296188.1	AF248863.1	AL161573.2	AL161573.2	D89013.1	D89013.1	11559924 NT	Q99958	AF017784.1	D90917.1	AA854475.1	J00762.1	4768521 NT	AB037766.1	
Most Similar (Top) Hit BLAST E	7.0E-01			1		_			7.0E-01	Подраж	-	6.9E-01	+~	6.9E-01	-	6.9E-01	6.9E-01	6.9E-01	6.9E-01		6.9E-01	6.9E-01	6.9E-01	6.9E-01	6.8E-01	6.8E-01	6.8E-01	6.8E-01	6.8E-01		1 {
Expression Signal	1.14	1 85	8		0.94	100	2 4	9:	1.72	14.87	Ž.	14.67	2.03	1.73	0.71	0.68	1.51				1:78	1.78	1.97	3.07		"					
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8 EXPLESSOR III Tar. 9	Top Hit Descriptor Top Hit Descriptor	Homo septens indeed to see the septens of the septe	contains element TAK1 repeative element. Contains element TAK1 repeative element. Contains element TAK1 repeative element.	Drosophila melanogaster Mistoro gene, con (Relish) gene, complete ods, alternatively spirced alternatively spirced spirced; and transcription factor (Relish) gene, complete ods, alternatively spirced; and transcription factor (Wasp), mRNA Mus musculus Wiskott-Aldrich spirdcome protein (Wasp), mRNA	S.tuberosum mRNA (or glucose o-principles of stuberosum mRNA) genes, complete ode	M.barkeri ATPase alpha and beta subunit (atpA and atpB) genes, complete cds	M. barken A. r. ass up	Gallid herpesylrus 2, complete genome	Gallid herpesytrus 2, complete genome	601660177R1 NIH MGC_71 Homo saplens CDNA clone IMAGE:3805778 3'	601660177R1 NIH MGC 71 Holling septemble 529 of the complete genome	Pseudomonas aeruginosa PA01, securi 101 or de complete genome	Helicobacter pylon, su alli 1950 300000000000000000000000000000000000	Human placental process 114 (1776) Homo saplens cDNA	CM34TIO/09505050	IN-ACE TIES OF SOUTH SELECTION OF SELECTION OF SOUTH SECTION OF SOUTH SECT	Homo september of a family september of the september of	Homo sapietie series comain, (semaphortn) 54 (SEMASA) mixiva	Calbicans random DNA marker, 282bp	hormochromatosis region, histone 2A-like protein gene, hereditary haemocni dinaposis	Human herballati AoN learnson: (HLA+H) gene, Roy Roy and Sodium phosphate transporter (NP13) gene, curiprese con (HLA+H) gene, Roy Roy Gene, and sodium phosphate transporter (NP13) gene, curiprese con (HLA+H) gene, Roy	Mus musculus is rection 19 of 529 of the complete genome	Desurance Beruginosa PA01, section 19 of 529 of the continue serior	Т	Т	Homo saplens guanylate cyclase activating protein 3 (GCAP's) gents		
Single Exon Probes Expressed	Top Hit Database Source		EST_HUMAN		Z	NT	NT	Z!	E E	EST HUMAN	EST HUMAN	NT	NT	NT	EST HUMAN	SWISSPROT	NT	!	N L		۲N	LN L	Z		EST_HUMAN	IN IN		
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	Most Similar (Top) Hit BLAST E Vetue	6.7E-01 AF2	8.7E-01 AA451884.1	6.7E-01 AF	6.7E-01	6.7E-01 104836.1	8.7E-01 J04836.1	6.7E-01 AE001486.1	6.7E-01	8.7E-01	8.7E-01 B	8.7E-01 B	8.7F-01 /	6 7F-01 M34046.1				L	6.6E-01	1	6.6E-01		1) 6.8E-01			Ш	5 6.6E-01	
	Expression (Signal B	32.74	1.14	2.34	4.42	0.04	0.83	0.93	1.36	1.36	0.48	0.48		1.18						3.89	82.0						1.45	
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	Probe SEQ ID S	25.5	2059	2074	2850	4483	5771	5771	6262	5692	8078	8269	THE STATE OF THE S	7807	10147	10732	11210	2649	3465	3657		4128	6662	2	*	8 6	ă Ş	<u></u>

	Top Hit Descriptor	illain chalarae chromosome II, section 39 of 93 of the complete chromosome	Hundrads Na K. ATPase alpha subunit mRNA, complete cds	H. vulgaris Na,K-ATPase alpha subunit mRNA, complete cds	Mus musculus gene for Tob2, complete cds	Homo saplens interleukin 10 receptor, alpha (IL10RA) mRNA	Hamo sapiens SPP2 gene for secreted phosphoprotein 24 precursor, excurs 1-2	Arabidopsis thaliana DNA chromosome 4, contig tragment No. 35.	Oryza sativa gene for prepro-glutelin, exans 1, 2, 3, 4, complete cus		Phaseolus vulgaris ATPase gamma subunit mitiva, inclear geno complex COMPONENT SNF6) TRANSCRIPTION REGULATORY PROTEIN SNF6 (SWI/SNF COMPLEX COMPONENT SNF6)	(TRANSCRIPTION FACTOR TYE4)	Promo saprens of the formulation	Ciliares III and Lambria (50) name (excn. 1) transcribed selectively in pre-B lymphocytes	Murine 19-related Rational Cys. Action Saplens CDNA clone IMAGE: 2321642 3	WASSECTION OF Sources (state liver spiesen 1NFLS Homo sapiens cDNA clone IMAGE: 108647.3	Journal of TP-binding protein RAB26 (Rab25) gene, complete cds	Mus museums single of 1525-252616 5	WAT106.rf Scares_placenta_8to8weeks_2NbHP8to9W Homo septents CDN Scares_placenta_8to8weeks_2NbHP8to9W Homo septents CDNA clone INAGE:1100748 3'	No local 31 No. 2014 Home Suplens CDNA clone PLACE1007810 6	Disamodium berghei cytochrame c oxidase subunit III, cytochrame c oxidase subunit I, and cytochrame	genes, mitochondrial genes encoding mitochondrial proteins, comptere cus Financia y NCI CGAP Lu24 Homo septens cDNA clone INAGE:3179130 3'	Scaradelas chromosome IV reading frame ORF YDL097c	Drosophila melanogaster 8kd dynein light chain mRNA, complete ods	Mus musculus dystroglycan 1 (DAG1) gene, exons 1 and 2 and continued cus	Homo sapiens mRNA for KIAA1607 protein, partial cds	M.musculus whn gene	M.musculus whn gene	ysgue08.r1 Soares retina N2b5HR Homo saplens Clina ciane limach.	Nelsseria meningitidis serogroup B strain MCo8 section 195 or 200	Treponema pallidum section 63 of 87 of the complete genome	
- Albuno	Top Hit Database Source			Z							ΤN	ISSPROT	ĿN.	LN	NT	EST HUMAN	EST HUMAN	TN.	EST_HUMAN	EST HUMAN	HOMOLI ISH	LN	ESI HUMAIN	Z	LIV	LV.	L'N	1	EST HUMAN	Z	Ł	
Rillo	Top Hit Acession Na.		-			6.5E-01 AB041225.1	4504654	1,2027,720	AL161639.2	700004.1	6.5E-01 U28921.1	P18480	6.6E-01 AL163249.2	D88348.1	X04769.1	~ 1	T78904.1	AF119676.1	H87583.1		AU138078.1				048848.1	1048854.2					1 AE001247 1	
. -	5	Value	6.6E-01	6.5E-01 M75140.1	6.5E-01 M75140.1	6.5E-01	6.5E-91	6.5E-01 AJ	6.6E-01 AL161638	6.5E-01	6.6E-01	6.5E-01 P18480	6.6E-01	6.5E-01 D	6.5E-01 >	6.5E-01	6.5E-01	8.5E-01	6.5E-01	6.5E-01	8.5E-01										0.4E-0.1	
	Expression Signal		1.41	1.48	1.48	5.52	1.33	4.73	0.0	1.33	2.62	2.08	0.57	1.48	0.64	0.78	0.87	1.32	4.65	2.24	3.91	2	2.78	2.19	12.3							1./4
	ORF SEQ E		30921	25613	25614	28368	28971	29210	29241	29532	30048			L				35628	25964	1_		36769	1	7	3 25281							11 34420
	a	ö	24320	13208	13206	15955	16582	16824	16856	17161	17688	<u> </u>		1	18634	L	L	1_		72927	L	<u> </u>	L	1	L	15977	_	17045	L		5398 17895	9079 21511
		ö	7,007	200	682	2840	800	4200	4334	4635	5184		On/G		707	2010		10264		10432	10572	443.48	3 5	12255	265	3433	3867	4527	4527	6317	8	8

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	Top Hit Descriptor	Homo saplens etaxia telangleotasta (A.I.M.) gene, control. Homo saplens etaxia telegraphic solutions and a solution of the solutions and the solutions and the solutions are solved to the solutions are solved to the solutions and the solutions are solved to	602150289F1 NIH_MGC_81 nuina seperation 000000000000000000000000000000000000	AV759212 MDS Homo septens clunk clura micro (CLONE PFHRP-III)	HISTIDINE-RICH PROTEIN A of 163 of the complete genome	Haemophilus Influenzae Ku secuol + or	Shigelia flemen multi-antiblotic reststance to the Shigelia flemental cds	Gallus gallus bone morphogeneuc process (Callus gallus bone morphogeneuc Hampa) mRNA, partial cds	Gallus gallus bone morphogeneuic protein 1 (cm. 1)	Lycoperatorn esculer living to a grant the complete genome	Treponema pallidum seguon (2 or of complete cds; and CPN-1 (cpn-1) gene, partial cds	Caencrhabditis priggsas CC-1 (CC-1) Simple Saplans CDNA	PMO-B1075/-U1030U-0v2-good complete cds	Streptococous dysgalactiae (mag) gare, complete cds	Streptococcus dysgalactiae (mag) gane, control clone IMAGE:3959351 5	1601678889F1 NIH_MGC_21 Figure September 2011	Variola virus, complete genome	Variola virus, complete genome	S.cerevisiae chromosome VII reading Irania or 400 of the complete genome	Escherichia coli K-12 Mc1655 securi 253 ci non IMAGE: 1161371 3' similar to TR: 002916 U029			Γ	Γ	Mus musculus keratin complex 2, generally in a synthetase (PAPSS) mRNA, complete cds	Homo sapiens 3-phosphosacenosmia or processing of the processing o	П			Mus musculus chromosome A conugh, paratro mass	7	i .	Γ		
Single Exoli 1 12	Top Hit Database Source	Ę	EST HUMAN	EST_HUMAN	SWISSPROT	Į.	5	Z	Z	F	K	1.	EST HUMAN	Z	٤	EST HUMAN	LN	IN.	Z	E		EST HUMAN	SWISSPROT	SWISSPROT	3 NT	N	LN	SWISSPROT	Ę	-	NT FST HUMAN	EST HUMAN	L Z		
Singi	Top Hit Acesston No.			759212.1					Τ		A 25 04 AF001257.1	8 9E 01 AF176377.1	9.3E-01 DE003006 1	27798 1	-11		н.		772003				Alaut 100.	P47000	9910293 NT	AF10522	1 X83528.1	1010135			M AL021127.2	1 PEED 27 1	71 BE302001.1	6.2E-U1 IMZ4401.1	
	Most Similar (Top) Hit BLAST E Value	11 60 -17 0	6.4E-011 002020.1	6.4E-01 BF	6.4E-01 PN5228	0.35-01	6.3E-01 U32008.1	6.3E-01	8.3E-01 8.3E-01	0 20 0	0.30.0	8.2E-01	1010	6.35-01	6.3E-01	6.35-01	6.3E-01	6.3E-01	6.35-01	6.3E-01	6.35-01	6.3E-01	6.35-01	6.35-01	6.3E-01		1	1	1	1					
	Expression (1)		7.64	2 2	9.9	2.63	3.44	2.14	2.81	707	0.78	2.4	11.82	0.99	0.98	0.96	3.61	3.26	3.28	1.6	0.92	1.97	4.05				1.78			28/				2.81	
	ORF SEQ E		35471	35486		25451	25534	27104	27512	27513		30149	-	31663	32272	32273		34980	34981	35690	35763	36267	36557	36634	36755	30455			31429						
	Exan ORI	<u> </u>	22507	22621	24257	13026	13125	14586	14998	14998	15530	17783	17968	18928	19492	19492	21447	22049	22049	22722	22792	23277	23520	23593	23701	24913				20433	24843	L_	L	l_	Ì
	Probe E		4010B	L	L	L	L	L		2497	2975	6282	6473	6370	6955	6955	8014	9634	9634	10322	10392	10843	11096	11177	11337	11683	11784	12007	6158	7999	8056	8852	9853	9889	:
	- 0)		_																																

		T	T	$\overline{}$	Т	7	Т	Т	T	7	_	T_	Т	1	1	Т	7	T	Т	T-	т-	7	7	7	7	_	7	_	_
Onigo Extra Figure Sed III Edilg	Top Hit Descriptor	Arabidopsis thaliana DNA chromosome 4. confin fragment No. 23	NON-STRUCTURAL POLYPROTEIN (CONTAINS: RNA-DIRECTED RNA POLYMERASE; THIOL PROTEASE P3C; HELICASE (2C LIKE PROTEIN): COAT PROTEIN	NON-STRUCTURAL POLYPROTEIN (CONTAINS: RNA-DIRECTED RNA POLYMERASE; THIOL PROTEASE PAG: HEI ICASE (20.1 IKE PROTEIN): COAT BECTEIN	Mus musculus secreted acidic ovarients of proximately (Spare) mRNA	Rattus norvegicus dinvaroxypolyprenylbenzoate methytransferasa mRNA complete cde	Rattus norvegicus dirydroxypolyprenylbanzpata methyltransferasa mRNA complete ode	Casnorhabditis elegans N2 CeMyoD (hih-1) altamativaly soliced genes, complete cas	Rat TRPM-2 gene, complete cds	Rat TRPM-2 gene, complete cds	xd50h03.x1 NCI_CGAP_Ov23 Homo saptens cDNA clone IMAGE:2597237 3' similar to gb:X12871_ma1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN):	SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROTEIN) (DOWN-REGULATED BY V-SRC)	Arabidoosis thaliana putativa zho transporter (ZIRA) mRNA complete ode	Homo saplens milector-activated models kinese kinese kinese kinese AMADAVA - HINA	Homo saplens mitoden-activated protein kinasa kinasa kinasa A (MADAKA), mpua	Homo saplens G-protein counied recents FDG-7 mRNA Amelian As	Homo sapiens Grandein coupled receptor EDG-7 mRNA commens cots	Pseudomonas aeruginosa PA01, section 13 of 529 of the complete genome	Homo saplens dopamine transporter (SLC6A3) gene, complete cds	hyaluronan-binding protein≕hepatocyte growth factor activator homolog [human, plesma, mRNA, 2409 n.fl	hvalimnan-binding profein-then observed or such footbase and when the such such such such such such such such	Mis misculis Codas mbNA for the W collection of the Entering Line in the Anna misculis Codas mbNA for the Management of the Entering State of the Entering	M.mazel orf8. orf8 and orfC of archaeal ARC-transporter endows	Homo saciens DNA for amyold precursor protein complete cds	Homo septens adentar-related protein complex 3 mil 2 submitti (Cl. App.) mBNA	Human respiratory syncytial virus strain CH93-53b attachment protein (G) gene complete cyls	Viral hemorrhagic septicemia virus N. P. M. G. Nv. L. genes. French strain 07-71	D(2) DOPAMINE RECEPTOR	UI-H-BI1-aeb-a-10-0-UI.s1 NCI CGAP Sub3 Homo sepiens cDNA clone IMAGE-2718610 2
פום ביוטאים פום	Top Hit Database Source	N	SWISSPROT	SWISSPROT	Ľ	Į.	LN	NT	LN	NT	EST_HUMAN	SWISSPROT	L	LN	LN L	LN	L	TN	NT	TN	·	L	Ę	Z	17	ĮN.		ISSPROT	EST_HUMAN
5	Top Hit Acession No.	AL161511.2	P27410	P27410	6678076	1.20427.1	120427.1			M64733.1	AW105653.1	063769	35.1	31066	11431065 NT	AF236117.1	Γ		AF119117.1	\$83182.1	\$83182.1	-		D87675.1	5802999 NT	AF065253.1	AJ233396.1		4W139713.1
	Most Similar (Top) Hit BLAST E Value	8.2E-01	6.2E-01	8.2E-01	1=	6.1E-01	6.1E-01	6.1E-01	6.1E-01	6.1E-01	6,1E-01	6.1E-01	7	-	8.1E-01		6.1E-01	6.1E-01	6.1E-01/	6.1E-01		8.1E-01/		6.0E-01	6.0E-01	6.0E-01	8.0E-01	6.0E-01	
	Expression Signal	7.21	6.08	. 6.08	6.08	4.03	4.03	1.3	4.19	4.19	0.7	0.63	3.6	124	1.24	72	. 24	1.08	1.38	1.97	1.97	1.92	1.67	1.34	3.28	2.83	0.89	2.34	2.46
	ORF SEQ ID NO:	35461	35769	35770		20972			ļ	32587	32780	32834	34145	34650	34551	34977	34978	35275	35431	36871	36872	30777	-	25499		26386	28759	30477	30705
	Exen SEQ ID NO:	22489	22798	22796	i l	1	}	1	ŀ	19778	19946	19994	21238	21643	21643	22047	22047	22328	22474	23812	23812	24695	24489	13085	13149	13928	16359	18122	18281
	Probe SEQ ID NO:	10098	10396	10396	2282	6102	5102	96/9	7273	7273	7443	7544	8804	9211	9211	9632	9632	9566	10073	11453	11453	11780	12472	512	678	1394	3822	2632	2696

Table 4

				_	_	_	~	_	_	_			_		_		_	_	_		_		_	_	_	_			_	
Only Exon Flobes Expressed in Lung	Top Hit Descriptor	Musca domestica hisecticide-succeptible strain voltade-sensitive sociium channel mRNA.	MACROPHAGE-STIMULATING PROTEIN RECEPTOR PRECURSOR (MSP RECEPTOR) (P185-RON)	Strongylocentrotus purpuretus kinesin light chain Isoform 2 mRNA, complete cds	Strongylocentrotus purpuratus kinesin light chain isoform 2 mRNA complete cds	Homo sapiens partial LMO1 gene for LIM domain conty 1 protein, exch. 1	SEGMENTATION PROTEIN FUSHI TARAZU	SEGMENTATION PROTEIN FUSHI TARAZU	Homo sepiens genes for leukotriene B4 recentur Bl T2 leukotriene R4 recentur Bl T4 semenatas ede	PEROXISOMAL MEMBRANE PROTEIN PERO (PERO XIV.3)	108107.x1 NCI CGAP Prza Homo seplens cDNA cłona IMAGE-noskepy 3*	Homo saplens nuclear factor (envitred-derived 2 Lilka 3 (NFE): 3) mRNA	298g05.91 Soares fetal liver splean 1NFLS S1 Homo semiens of NA China MACE AS 2778 of	Mus musculus cGMP-inhibited phosphodiesterase (Pde3a) mRNA	RC1-HT0376-030500-015-c03 HT0375 Homo septens CTNA	Haemophilus influenzae Rd section 16 of 163 of the complete governe	Mus musculus 3-hvdroxx-3-methydlutary-Coenzyma A hasa (Hmori) mRNA	Homo saplens chromosome 21 segment HS2(CNs7	Hamo sapiens chromosame 21 segment HS21C067	Pterodroma neglecta cytochrome b (cytb) gane, mitochondrial gene encoding mitochondrial protein, complete cds	Rattus norvegicus cenevin 2 mRNA, partial cds	Homo septens low density innovitien recenting advantaged which if a DON const.	Homo sepiens cene for historian H2 recentive recognition and exemple.	Gaellus gene for skeletal alpha-actinin exon FE2	VÁSCULAR ENDOTHELIAL-CADHERIN PRECLIRSOR (VE-CADHERIN) CADHERIN S	PM1-DT0041-190100-002-h03 DT0041 Homo sanians CDNA	Mus spretus strain SPRET/Ei CD48 entition (Cd48) gene partial cde	JSN1 PROTEIN	JSN1 PROTEIN	Oryctolegus cuniculus alpha 1 anti-trypsin (alpha 1 AT) gene, promoter region
שוני בייטון ביוס	Top Hit Database Source	Į,	SWISSPROT	N.	F	Σ	SWISSPROT	SWISSPROT	Į.	SWISSPROT	EST HUMAN	۲	EST HUMAN	1	EST HUMAN	Į.	Į.	ĮN.	TN	ŢN	-N		Į.	IN.	SWISSPROT	EST HUMAN	N	SWISSPROT	SWISSPROT	NT
5	Top Hit Acession No.	U38813.1	Q04912	L10234.1	L10234.1	AJZ77661.1	P02835	P02835	AB008193.1	001497	AI420623.1	11421683 NT	AA706087.1	FN 5055303 NT	BE157817.1	U32701.1	6680232 NT	AL163267.2	AL.163267.2	U74341.1	AF162756.1	AF065440.2	AB023486.1	X68801.1		AW937175.1	Γ		P47135	L42320.1
	Most Similar (Top) Hit BLAST E Value	6.0E-01	6.0E-01	6.0E-01	6.0E-01	8.0E-01	6.0E-01	8.0E-01	6.0E-01	6.0E-01	6.0E-01	6.0E-01	6.0E-01		6.0E-01	6.9E-01	5.9E-01	5.9E-01	6.9E-01	5.9E-01	5.9E-01	5.9E-01	5.9E-01		5.9E-01	5.9E-01		5.9E-01		6.9E-01
	Expression Signal	2.21	0.75	0.72	0.72	8.61	5.43	5,43	1.93	1.78	5.26	1.68	1.38	3.08	3.11	1.2	1,41	5.39	5.39	0.66	4.28	1.47	1.17	0.55	1.21	3.08	3.61	1.7	1.7	1.43
	ORF SEQ ID NO:	32205	32350	32745	32746			34081	35257		36719			30878		26019	26422	28201	28202	28758		32126	33022		35536	36163	36408	36643	36644	81009
	Exan SEQ ID NO:	19430	19583	19917	19917	20264	21154	21154	22312	22628	23670	24234	24316	24747	24670	13578	13966	15784	15784	16358	16762	19351	20185	20315	22670	23179	23396	23600	23600	24015
	Probe SEQ ID NO:	9890	7027	7208	7208	7823	8719	8719	9910	10227	11305	12083	12197	12408	12436	1027	1434	3232	3232	3821	4237	6810	7720	7876	10189	10741	10967	11231	11231	11723

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11975	24169		2.67	5.9E-01	AB017705.1	NT	Aspergillus cryzae pyr G gene for crotidine-5'-phosphate decarboxylase, complete cds
12207	24323		5.87	5.9E-01	P34928	SWISSPROT	MICROTUBULE-ASSOCIATED PROTEIN 1A [CONTAINS: MAP1 LIGHT CHAIN LC2]
2478	14979		8.71	5.8E-01	7305230 NT	F	Mus musculus low density lipoprotein B (Ldib), mRNA
3998	16532	28934	1.2	5.8E-01	BF695738.1	EST_HUMAN	601852474F1 NIH_MGC_56 Hamo sepiens cDNA clone IMAGE:4076131 5
4551	17068	29460	3.46	ا	AB009077.1	E	Vigna radiata mRNA for proton pyrophosphatase, complete cds
4851			1.67	5.8E-01	AF110846.1	NT	Megaselia scalaris sex-lethal homolog (Megaxl) gene, partial cds, alternatively spliced products
5630	18217		1.02	5.8E-01	AE002/152.1	F	Ureaplasma urealyticum section 53 of 59 of the complete genome
5793	18374	31032	0.89	6.8E-01	Q10699	SWISSPROT	POTENTIAL 6-3' EXONUCLEASE
6498			1.5	5.8E-01	D78659.1	EST_HUMAN	HUM600E06B Human placenta polyA+ (TFujiwara) Homo sapiens cDNA clone GEN-500E06 5'
6840	19188	31939	2.64	5.8E-01	D50601.1	Ę	Shigella sonnei DNA for 26 ORFs, complete cds
7203	19914		2.27	6.8E-01	S65091.1	Z E	cyclic AMP-regulated phosphoprotein [rats, mRNA, 1030 nt]
							yn91b03.s1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:175767 3' sImitar to
8552			2.41	5.8E-01		EST_HUMAN	gb:S78187 M-PHASE INDUCER PHOSPHATASE 2 (HUMAN);
848			3.07	5.8E-01		SWISSPROT	SPORE COAT PROTEIN SP98
8768			3.07	5.8E-01	P14328	SWISSPROT	SPORE COAT PROTEIN SP96
9271		34614	12.36	5.8E-01	AJ270774.1	NT .	Homo sapiens partial TCF-4 gene for T-cell transcription factor-4, exons 6-11
9322			1.1	5.8E-01	027368	SWISSPROT	TRANSCRIPTION FACTOR E2F
10772		36192	3.67	5.8E-01	AJ243213.1	N	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
10813	23249		3.32	6.8E-01	BF700092.1	EST_HUMAN	602127577F1 NIH_MGC_56 Home septens cDNA clone IMAGE:4284403 6
10919			2.38		BF700092.1	EST_HUMAN	602127577F1 NIH_MGC_56 Home saplens cDNA clone IMAGE:4284403 5
3003			0.71	6.7E-01	8755253		Mus musculus plasmacytoma variant translocation 1 (Pvt1), mRNA
3182	15735	28154	1.5	5.7E-01	Q9WTJ2	SWISSPROT	PUTATIVE TRANSCRIPTION FACTOR OVO-LIKE 1 (MOVO1) (MOVO1A)
3483	16026		2.72	6.7E-01	AB033503.1	LN IN	Populus euramericana peacs-2 mRNA for 1-aminocyclopropane-1-carboxylate synthasé, complete cds
3914	16449	28856	0.88	5.7E-01	AF011581.1	Z	Homo sapiens T cell receptor beta chain (BV6S772-BJ1S1) mRNA, partial cds
6426	17920	30272	2.7	6.7E-01		L	Drosophila extra sex combs gene, exch 1-4, complete cds
9889	_1		5.14	6.7E-01		EST_HUMAN	601454962F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3858590 5'
7083			0.7	6.7E-01		EST_HUMAN	z38c08.r1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:685974 6'
7261			1.62			TN	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation
8320		1	2.2	6.7E-01	P00373	SWISSPROT	PYRROLINE-5-CARBOXYLATE REDUCTASE (P6CR) (P5C REDUCTASE)
8480	_	33789	0.46	5.7E-01		TN	Arabidopsis thalians DNA chromosome 4, contig fragment No. 86
8916	ı		3.48			EST_HUMAN	HA0895 Human fetal liver cDNA library Homo saplens cDNA
9895	ı		1.1	5.7E-01	AL161532.2	TN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 32
9895	22297	35239	1.1	5.7E-01	AL.161532.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fregment No. 32

		Т	Т	T	T	Т	Т	Т	Т	Т	Т	Т	Т		Т	Т	Т	Т	Т	T^{-}	$\overline{}$	7	$\overline{}$	$\overline{}$	т-	Г	T		<u></u>	1
Bina III posso relative	Top Hit Descriptor	602087712F1 NIH MGC 58 Homo sapiens cDNA clone IMAGE:4068610 5	MR3-HT0736-180700-003-802 HT0736 Homo septens cDNA	601654814R1 NIH MGC 57 Homo saplens cDNA clone IMAGE:3839763 3'	Homo saplens mRNA for KIAA0740 protein, partial cds	Homo seplens mRNA for KIAA0740 protein, partial cds	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 13	HUMEST 489 Human thymus NSTH II Homo seplens cDNA	AV684703 GKC Homo sepiens cDNA clone GKCFSF05 6'	AV684703 GKC Homo sapiens cDNA clone GKCFSF05 5	Homo sapiens MUC3A gene for intestinal mucin, partial cds	601514007F1 NIH MGC_71 Homo saplens cDNA clone IMAGE:3916467 6'	ng75g10.s1 NCI_CGAP_Pr6 Homo sapiens cDNA clone IMAGE:940674 similar to contains element PTR7	repetitive element;	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 13	HIGH AFFINITY POTASSIUM TRANSPORTER	802132029F1 NIH MGC_81 Homo sapiens cDNA clone IMAGE:4271334 6'	8974b04.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:969874 3/	Rattus norvegicus Propiony Coenzyme A carboxylase, beta polypeptide (Pccb), mRNA	GAG POLYPROTEIN (CONTAINS: INNER COAT PROTEIN P12; CORE PROTEIN P16; CORE SHELL PROTEIN P30; NUCL EOPROTEIN P101	GAG POLYPROTEIN (CONTAINS: INNER COAT PROTEIN P12; CORE PROTEIN P15; CORE SHELL	Homo seciens superkiller viralicidio ecitotiv 2 / S. ceravistae homoloci. Litte (SKN21) mRNA	vo18a10.91 Soares adult brain N2b5HB65Y Homo sapiens cDNA clume IMAGE-178268 3	Rabbit oral papillomavirus, complete genome	FOS-RELATED ANTIGEN-1	Mus musculus major histocompatibility locus class III region:butyrophilin-like protein gene, partial cds; Notch4, PBX2, RAGE, lysophatidic acid acyl transferase-alpha, palmitoyi-protein thioesterase 2 (PPT2),	CKEB-RP, and tenasoin X (TNX) genes, complex	Mus musculus major histocompatibility locus class III region:butyrophilin-like protein gene, partial cds; Notch4, PBX2, RAGE, lysophatidic acid acyl transferase-alpha, palmitoyi-protein thioesterase 2 (PPT2),	CREB-RP, and tenascin X (TNX) genes, comple>	
5	Top Hit Database Source	EST HUMAN	П	Т	Т		-N	EST HUMAN	HUMAN	HUMAN	Г	EST HUMAN	Г	T HUMAN	NT	SWISSPROT		EST HUMAN		SWISSPROT	Π.		T HUMAN	- FA	SWISSPROT		Z		LN	
Ē.	Top Hit Acession No.	BF540982.1	T .		AB018283.2	AB018283.2	AL161501.2		3.1	AV684703.1	AB038782.1	BE888280.1			AL 161501.2	P50505		AA663881.1	8393912 NT	P03341	D03341	6902085	H46219.1	2	P48765		Arosoco1.1		6.5E-01 AF030001.1	
	Most Similar (Top) Hit BLAST E Value	5.7E-01	5.7E-01	5.7E-01	5.6E-01	5.6E-01	5.6E-01	5.6E-01	5.6E-01	5.6E-01	5.6E-01	5.6E-01	!	5.6E-01	5.6E-01	5.6E-01	5.6E-01	5.6E-01	5.5E-01	5.5E-01	5.55-04	5.5E-01	5.5E-01	5.5E-01	5.8E-01	70 22 2	0.0E-01		6.5E-01	
	Expression Signal	1.11	1.35	1.24	1.2	1.2	0.67	0.47	4.89	4.89	1,06	2.72		1.9	1.79	. 2.46	4.13	1.34	3.21	21	2.0	0.74	1.5	2.85	1.34	0	0.0		9.0	
	ORF SEQ ID NO:	35789			28309	28310	28833	33551	34560	34561	35010			36561	28833				26227	27654	27655	27846		28167	28639	7000	innee		33008	
	Exan SEQ ID NO:	22815	23986		15888					21649	22083	23917		23999	16427			24580	13780	15143	15143	l	16681		16230	5	1		20130	
	Probe SEQ ID NO:	10415	11677	12428	3341	3341	3892	8244	9217	9217	9603	11572		11693	12081	12111	12565	12610	1242	2650	2650	2872	3026	3193	3690	7	3	į	1,03	•

Expression Signal 2.3	Timilo social		1	
2.34	MOST SIMILAT (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
787	5.5E-01	BF129507.1	EST_HUMAN	601811077R1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4054003 3*
5.	5.4E-01	7657266 NT	N	Homo sepiens KIAA0929 protein Msx2 Interacting nuclear target (MINT) homolog (KIAA0929), mRNA
7.64	5.4E-01	7657266 NT	L L	Homo sapiens KIAA0929 protein Msx2 interacting nuclear target (MINT) homolog (KIAA0929). mRNA
0.96	5.4E-01 A	F232006.1	Į	Pseudomonas symgae pv. tomato strain DC3000 AwE (avrE), HrpW (hrpW), and GstA (gstA) genes, complete cds; and unknown genes
0.96 5.	5.4E-01 A	F232006.1	N	Pseudomonas syringae pv. tomato strain DC3000 AvrE (avrE), HrpW (hrpW), and GstA (gstA) genes, complete cds: and unknown genes
2.44 5.	100 H	W895087.1	T HUMAN	QV4-NN0040-070400-160-c04 NN0040 Hamo sapiens cDNA
	Ë			Chlamydophila pneumoniae AR39, section 74 of 94 of the complete genome
1.93 5.4			NT	Droscophila melanogaster mRNA for 15,15' beta carotene dioxygenase (beta-diox gene)
0.59 5.4	5	5.4E-01 U07581.1	¥	Human ABL gene, expn 1b and intron 1b, and putative M8504 Met protein (M8504 Met) cane, complete cds
	ξ	5.4E-01 AW747972.1	EST_HUMAN	QV0-BT0041-061099-033-e02 BT0041 Homo saplens cDNA
	집		NT	A thallana mRNA for phosphoinositide specific phospholipase C
	집		T HUMAN	PM2-CN0030-030200-003-010 CN0030 Homo sapiens cDNA
				Rattus norvegicus gene for TIS11, complete cds
•	짒	2	T_HUMAN	601660276R1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3906090 3'
0.82 5.4	짉	5.4E-01 Z21619.1	NT	S.cerevisiae RIB3 gene encoding DBP synthase
	E-0		TN	S.cerevisiae RIB3 gane encoding DBP synthase
-		•		MITOCHONDRIAL TRIFUNCTIONAL ENZYME ALPHA SUBUNIT PRECURSOR (TP-ALPHA)
1.7 6.4	E-01	5.4E-01 Q64428	SWISSPROT	[INCLUDES: LONG-CHAIN ENOTL-COA HYDRA LASE; LONG CHAIN 3-HYDROXYACYL-COA DEHYDROGENASE]
	4E-01	36.1	EST_HUMAN	602076545F1 NIH_MGC_62 Hamo sapiens cDNA clone IMAGE:4243690 5'
2.48 5.	4E-01		SWISSPROT	NITRATE REDUCTASE (NADPH) (NR)
	4E-01	5.4E-01 Q60675	Ι.	LAMININ ALPHA-2 CHAIN PRECURSOR (LAMININ M CHAIN) (MEROSIN HEAVY CHAIN)
2.44 5.	4E-01		П	LAMININ ALPHA-2 CHAIN PRECURSOR (LAMININ M CHAIN) (MEROSIN HEAVY CHAIN)
2.82 5	5.4E-01	AIB58398.1	EST_HUMAN	w37g04.x1 NCI_CGAP_Ut1 Homo sepiens cDNA clone IMAGE:2427128 3' similar to gb:M13452 LAMIN A (HUMAN);
				Homo eaplens HLA dess III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21- hydroxylase (CYP218), complement component CA (CAR) G41, helicase (SKI2M), RD, complement factors a
	낊	AF019413.1		(Bf), and complement component C2 (C2) genes,>
6.05 6.3	6.3E-01	4508328 NT		Homo saplens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA

Table 4 Single Exon Probes Expressed in Lung

WO 01/86003

Top Hit Descriptor	Homo saciens protain tyrosine phosphatase, receptor-type, zeta potypeptide 1 (PTPRZ1) mRNA	Homo saptens secreted C-type lectin precursor (LSLQL) gene, complete cds	Mycoplasma genitalium section 9 of 61 of the complete genome	Т	Г	Т	T		Π	Т		Т	ļ	Т	Drosophila melanogaster helix-toop-helix mRNA, complete cds		Homo sapiens phospholipid scramblase 1 gene, complete cds	Homo sapiens chromosome 21 segment HS21C085	Homo sepiens mRNA for KIAA0740 protein, partial cds	Homo sapiens lens epithelium-derived growth factor gene, alternatively spliced, complete cds	Homo saplens lens epithellum-derived growth factor gene, afternatively spiliced, complete cds	Bos taurus desmosome associated protein plnin mRNA, complete cds	Bos faurus desmosome associated protein plnin mRNA, complete cds	Chlamydophila abortus strain S26/3 POMP91A and POMP90A precursor, genes, complete cds	Azotobacter vinelandii Icd gene for Isocitrate dehydrogenase, complete cds	Botryits cinerea strain T4 cDNA library under conditions of nitrogen deprivation	Г	Medicago sativa chloroplast malate dehydrogenase precursor (p1mdh) mRNA, nuclear gene encoding chloroplast protein, complete cds
Top Hit Database Source	LN LN	N	Z	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	IN	EST_HUMAN	EST HUMAN	ΓN	N T	SWISSPROT	N	뒫	NT	IN	N	E	Ę	뇐	N	뒫	EST_HUMAN	M
Top Hit Acession No.	4506328 NT	AF087658.1	U39687.1	AI820921.1	AI820921.1	AA193672.1	AA183672.1	BE645620.1	BE645620.1	BF381837.1	L01950.2	-	AA916053.1	_	_	Q9WV30	AF224492.1	AL163285.2	AB018283.2	•	AF199339.1	U77717.1	U77717.1	U65942.1	D73443.1	1	AA984165.1	AF020269.1
Most Similar (Top) Hit BLAST E Value	5.3E-01	5.3E-01	5.3E-01	5.3E-01	5.3E-01	6.3E-01	5.3E-01	5.3E-01	6.3E-01	6.3E-01	5.3E-01	5.3E-01	6.3E-01	5.3E-01	5.2E-01	5.2E-01	5.2E-01	5.2E-01	6.2E-01	5.2E-01	5.2E-01	5.2E-01	5.2E-01	5.2E-01	6.2E-01	5.2E-01	6.2至-01	6.2E-01
Expression Signal	6.05	3.41	1.35	1.74	1.74	0.98	0.98	2.19	2.19	0.52	1.61	7.5	3.64	1.27	12.8	9.19	2.23	2.69	1.86	4.1	4.1	4.19	4.19	1.76	0.8	1.79	2.16	0.88
ORF SEQ ID NO:	27744	28172		30727	30728	31061	31062	31175	31176	33817		36727		30685	25834		26206		27089	27427	27428	27466	٠	28040			28379	
Exan SEQ ID NO:	15231		16751		18298	18398	18398	18492	18492	20921	21713	23676	24744	24781	13396	13735			J	J	Į	j			J		15986	16170
Probe SEQ ID NO:	2741	3202	4226	5715	5715	5818	5818	5914	5914	8509	9281	11312	11564	12607	839	1184	1222	1851	2058	2404	2404	2449	2449	3080	3188	3382	3422	3630

t							
	Exan SEQ (D NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslan No.	Top Hit Database Source	Top Hit Descriptor
	16172	28282	0.61	5.2E-01	U82671.2	·	Homo sapiens chromosome Xq28 melanoma antigen family Aza (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin (CAI T), NAD/PH dehydrogenasa-lika modeln (NSDH), and 1.5
1	17163	29542	0.59	5.2E-01	6752947	L.Z	Mus musculus acetylcholine receptor beta (Acrb), mRNA
	17825		1.05		7106444 NT	F	Mus musculus vanillaid receptor-like protein 1 (Vrl1), mRNA
_	17806		0.98		AL163281.2	Į.	Homo saplens chromosome 21 segment HS210081
5922	18500		1.12		AA284261.1	EST HUMAN	zc44d09.T7 Scares senescent fibroblasts NbHSF Homo sabiens cDNA clone IMAGE:325169.91
10055	22456	35406	1.26	5.2E-01	AF143952.2	LN L	Homo sapiens PELOTA (PELOTA) gene, complete cds
12530	24526		4.11	6.2E-01	P18516	SWISSPROT	RETINOIC ACID RECEPTOR GAMMA (RAR-GAMMA) (RETINOIC ACID RECEPTOR DELTA) (RAR- DELTA)
636	13200	25608	2.04	5.1E-01	M58509.1	NT	Human adrenodown reductase gene, expns 3 to 12
299	13232	25643	4.58	5.1E-01	AJ233944.1	ĮŽ	Polyanglum vitallinum (strain Pl vt1) 16S rRNA gene
H	13232	25644	. 4.58	6.1E-01		Ę	Polyangium vitalinum (strain Pl vt1) 16S rRNA gene
4091	16622	29011	5.21	5.1E-01	AI858495.1	EST HUMAN	w33b12.x1 NCI CGAP Utt Homo sepiens cDNA done IMAGE-2427283.3
4203	16728	29116	3.42		P96380	SWISSPROT	TRANSCRIPTION-REPAIR COUPLING FACTOR (TRCF)
5186	17699		0.59	5.1E-01	BE091798.1	EST HUMAN	I. 2-BT0731-250400-077-G08 BT0731 Homo sepiens cDNA
6540	19092	31833	0.57	5.1E-01	BE541068.1	EST HUMAN	601063606F1 NIH MGC 10 Homo septens cDNA clone IMAGE:3460000 6/
0099	19151		0.83	5.1E-01	AV712326.1	EST HUMAN	AV712326 DCA Homo septens oDNA done DCAAUF07 6'
Щ.	19738	32542	1.25	5.1E-01	R80873.1	EST HUMAN	y94a09.s1 Soares placenta Nb2HP Homo sepiens cDNA clone IMAGE:148872.3
9823	22226		5.08	5.1E-01	J05412.1	Z	Human regenerating protein (reg) gene, complete cds
9825	22228	35165	3.78	5.1E-01	W22302.1	EST_HUMAN	65B1 Human retina cDNA Tsp5091-deaved sublibrary Homo saplens cDNA not directional
10155	22556	35524	1.09	5.1E-01	M94579.1	N.	Human carboxyl ester lipase (CEL) gene, complete cds
11795	24662		5.8	5.1E-01	BF030207.1	EST_HUMAN	601558863F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3828787 6'
12054	24220			A 411.04	BE/30082 1	ECT LIMAN	nac51f10.x1 NCI_CGAP_Bm23 Homo saplens cDNA clone IMAGE:3406218 3' similar to contains element
╄	14567	27081	0.95		15552	1000	Homo septembrilians comparellar hamanad 2 (100 Oblice) of
2051	14567	27082	0.85	50E-01	4885552 NT	5	Homo canions production against an arranged of the Control of the
1_	16286	28690	0.7	5.0E-01	U55574.1	L	Mis miscriffs anti-DNA imminoribility light chair I/M mDNA control 2022 420 model 240
3881	16416	28819	3.29	5.0E-01	AB033010.1	Į	Homo sepiens mRNA for KIAA1184 protein, partial cris
	18428	31099	0.47	5.0E-01	U30320.1	F	Sparus aurata conadotrocin-releasing hormone (shGnRH) precursor mRNA complete cds
	18428	31100	0.47	5.0E-01	U30320.1		Sparus aurata gonadotropin-releasing hormone (sbGnRH) precursor mRNA, complete cde
2008	19544		0.58	5.0E-01	BF576199.1	EST HUMAN	602132642F1 NIH MGC 81 Homo saplens oDNA clone IMAGE-4271839 5
7104	19637	32432	0.41		AF042848.1	Т	Homo sapiens EMMPRIN gene, promoter and exon 1
_	20619	33504	0.75		AL161549.2	ĮΝ	Arabidopsis thallana DNA chromosome 4, contig fragment No. 49

Probe SEQ ID NO:	_ (r)	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8198	20819	33205	0.75	5.0E-01	AL161549.2	N	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 49
8463	1		0.47	5.0E-01	271560.1	NT	S.cerevisiae chromosome XIV reading frame ORF YNL284c
9019	21452		1.94	5.0E-01	M92304.1	NT	Xenopus laevis smooth muscle beta-tropomyosin mRNA, complete cds
. 9861	20952	33850	3.58	5.0E-01	BF317212.1	EST_HUMAN	801903871F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4136632 5
9781	22/84	35119	1.53	5.0E-01	P35573	SWISSPROT	GLYCOGEN DEBRANCHING ENZYME (GLYCOGEN DEBRANCHER) [INCLUDES: 4-ALPHA-GLUCANOTRANSFERASE]; AMYLO-1, 8-GLUCOSIDASE (DEXTRIN 6-ALPHA-D-GLUCOSIDASE)]
0781	78166	35130		, d	028873	TOBBOOK	GLYCOGEN DEBRANCHING ENZYME (GLYCOGEN DEBRANCHER) (INCLUDES: 4ALPHA-GLUCANOTRANSFERASE); AMYLO-1,6-GLUCOSIDASE ALPHA ALPHA DE ALP
10297			13	5.0E-01		EST HIMAN	601444502451 NIH MGC 88 Home conjens cDNA class MARGE spackages
44770	L		200	1000	•		A COLLEGE AND COLLEGE OF THE COLLEGE
12406			2.8/	9.0E-01	AF029216.1		Mus musculus MKC OX-2 antigen homolog gene, exons 2-5, and complete cds
12506	L		4 53	9.00	AL 103302.2	TOGGGGWG	TOTILO SEGUEDIS GILIOMOSOMB ZI SEGMENT NOZIO IUZ
812	1_	25807	1.02	4 9F-01		EST HIMAN	NOCKEAN EINVELUPE PROTEIN COLTT
4720	L	L	2.71	4.9E-01		EST HUMAN	EST380868 MAGE resequences, MAGJ Homo sapiens cDNA
5862			1.32	4.9E-01	_	SWISSPROT	FIBRILLIN 1 PRECURSOR
6341		31630	2.83	4.9E-01	AF020931.1	N	Homo sapiens diacylglycerol kinase 3 (DAGK3) gene, exon 10
6341		31631	2.83	4.9E-01	AF020931.1	NT	Hamo sapiens diacyiglycerol kinase 3 (DAGK3) gene, exan 10
7887	L		1.61	4.9E-01	AB040051.1	N	Oryza sativa subsp. japonica mEF-G mRNA for mitochondrial elongation factor G, complete cds
8249			0.77	4.9E-01	Q10608	SWISSPROT	PUTATIVE UNDECAPRENYL-PHOSPHATE ALPHA-N-ACETYLGLUCOSAMINYLTRANSFERASE
8249		33556	7.70	4.9E-01	Q10606	SWISSPROT	PUTATIVE UNDECAPRENYL-PHOSPHATE ALPHA-N-ACETYLGLUCOSAMINYLTRANSFERASE
8334	21766		1.99	4.9E-01	BF209791.1	EST_HUMAN	801874864F1 NIH_MGC_54 Homo saplens cDNA clone IMAGE:4102503 5
9466	21897	34819	7	4.9E-01	AW339905.1	EST HUMAN	hc90c02.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:2907266 3' similar to TR:O95714 O95714 HERC2.
8248	ட		2.42	4.9E-01		NT	Mus musculus unc13 homolog (C. elegans) 1 (Unc13h1), mRNA
10253		35616	0.98	4.9E-01	AF053980.1	NT	Mus musculus adenyly cyclase 1 (Adcy1) cDNA, partial cds
11617	23948		1.39	4.9E-01	AF1769121	L	Homo sapiens neurotrophin-1/B-cell stimulating factor-3 gene, complete cds
12489			4.91	4.9E-01	AA613562.1	EST_HUMAN	ng22e11.s1 NCI_CGAP_Co10 Homo sepiens cDNA clane IMAGE:1144652 3'
12497	24504	30854	1.25	4.9E-01	AL163301.2	NT	Homo saplens chromosome 21 segment HS21C101
4355	16877		0.71	4.8E-01	4504850 NT	TN	Homo saplens potassium charnel, subfamily K, member 5 (TASK-2) (KONK5) mRNA, and translated products
5478	17973	30318	3.45	4.8E-01	P40603	SWISSPROT	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG (PROTEIN CEX)
							73.

Table 4
Single Exon Probes Expressed In Lung

Top Hit Descriptor Source	Saccharomyces cerevisiae) sporulation protein (SPO11) gene required for melotic recombination, complete ods	Mus musculus slow skeletal muscle troponin T (Trint!) gene, complete ods	hu85/09.s1 NCI CGAP Aivt Homo sapiens cDNA clone IMAGE:12/75/3	Homo saplens reproduction 8 (D8S2298E) mRNA	Hamo sapiens chronosame 21 segment HS21C009	Arabidopsis thallana DNA chromosome 4, continuing fragment No. 4	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 4	1/17/10.75 Soares breast 2NbHBet Homo sapiens cDNA clone IMAGE:164795 6' similar to contains element (MER6 repositive element :	PM1-HT0350-201289-004-b04 HT0350 Homo saniens cDNA	S ceravislae OREs from chromesme X	PM4-NN0091-010800-002-a09 NN0091 Homo seniens cDNA	Homo saplens chromosome 21 segment HS21C027	Trypanosoma cruzi transposom VIP II SIRE reneat renion	1601883880F1 NIH MGC 67 Hamp septens cDNA clone IMAGE-4008987 5	1972a09x1 Sogres testis NHT Homo saciens cDNA clane IMAGE-1764544 *	Influenza A virus isolate hk51697 hemadolutinin (HA) gene partial cals	Human collagen alpha2(XI) (COL11A2) gene exons 6 threach 16 and partial cds	602043889F1 NCI CGAP Brid7 Homo sapiens cDNA clone IMAGE 4181303 F	hd11c08x1 Soares NFL T GBC S1 Homo saplens cDNA clone IMAGE:20091983	Rattus norvegicus intestinal alkaline phosphatase-I (IAP-I) dene, complete cds	602081103F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245481 5	602081103F1 NIH_MGC_81 Homo saplens cDNA clone IMAGE:4245481 5	Prunus persica 1-aminocyclopropane-1-carboxylate oxidase (ACO2) gene, complete cde	Bovine steroid 21-hydroxylase gene (P-450-c21) gene, complete cds	601900234F1 NIH MGC 19 Homo saplens cDNA clone IMAGE:4129472 F	601900234F1 NIH MGC 19 Home sanlens cDNA clone IMAGE-4120472 6	INTERFERON REGULATORY FACTOR 3 (IRF-3)	INTERFERON REGULATORY FACTOR 3 (IRF.3)	601568755F1 NIH_MGC_21 Homo septens CDNA clone IMAGE:3843637 61	qh59h02x1 Soares_fetal_liver_splean_1NFLS_S1 Homo saplens cDNA clone IMAGE:1846011 3' similar to TR:015338 015338 BUTYR0PHILIN.;
Top Hit Database Source	, F	L _N	EST HUMAN	N.	LN	Į.	Ł	EST HUMAN	EST HUMAN	Z	EST HUMAN	N	N.	EST HUMAN	EST HUMAN	LN	Z	EST HUMAN	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	IN	N	EST HUMAN	EST HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	J02987.1	U92882.1	AA659878.1		AL163209.2	AL161492.2	AL161492.2	AI820744.1	BE155148.1		BE700327.1	AL163227.2	AF227565.1	BF217173.1	AI204374.1	AF102673.1	U41069.1	BF529658.1	AW341561.1	•	BF693300.1	100	AF129074.1	4.6E-01 M11287.1	BF313593.1	BF313593.1	290643	Q90643	BE734781.1	4[247679.1
Most Similar (Top) Hit BLAST E Value	4.8E-01	4.8E-01	4.8E-01	4.8E-01	4.8E-01	4.8E-01	4.85-01	4.8E-01	4.8E-01	4.8E-01	4.8E-01	4.8E-01	4.8E-01	4.7E-01	4.7E-01	4.7E-01	4.7E-01	4.7E-01	4.7E-01	4.7E-01	4.6E-01	4.6E-01	4.6E-01	4.6E-01	4.6E-01	4.6E-01	4.6E-01 Q90643	4.6E-01	4.6E-01	4.6E-01
Expression Signal	9.57	0.61	4.19	2.06	1.03	3.6	3.6	1.14	1.04	1.83	3.19	1.55	3.31	6:28	0.64	6.25	2.17	3.7	1.74	1.19	1.54	1.54	0.89	8.29	1.03	1.03	3.98	3.98	1.91	3.56
ORF SEQ ID NO:		32377				33624	33625	33897			36974			32179			36294						30131				30745		31051	31068
Exan SEQ ID NO:						20731	20731		21971	Z96ZZ	23891	24003	24701	19405	19874	23065	23300			_ [- 1	ı	- 1		- {			18313	18390	18404
Probe SEQ ID NO:	5769	7048	7058	7,80	8201	8316	8316	8565	9209	10513	11534	11700	11937	6865	7470	10823	10867	11053	11956	12613	3742	3742	5261	5315	5875	5675	6731	5731	5810	5824

Table 4
Single Exon Probes Expressed in Lung

							B. 11
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similer (Top) Hit BLAST E Value	Top Hit Acession 'No.	Top Hit Database Source	Top Hit Descriptor
5824	1	31069	3.56	4.6E-01	AI247679.1	EST HUMAN	qh59h02.x1 Soares fetal liver spleen_1NFLS_S1 Homo eaplens cDNA done IMAGE:1849011 3' similar to TR:015338 015338 BUTYROPHILIN ;
5832	1 1	31080	1.75	4.6E-01	P20050	SWISSPROT	MEIOSIS SPECIFIC PROTEIN HOP1
5915	1		89.0		4.6E-01 AF212124.1	TN	Anolis schwartzi cytochrome b gene, partial cds; mitochondrial gene for mitochondrial product
6007			0.81	4.6E-01 BI	3817247.1	EST_HUMAN	PM0-BN0260-120600-001-F07 BN0260 Homo saplens cDNA
6190	18756	31459	0.56		26215.1	LN L	Unidentified soil bacteria 16S rRNA gene encoding 16S ribosomal RNA
AK70	10430	31878		V PO 30 V	A 10000014	-	Methanobacterium thermoautotrophicum from bases 1165761 to 1176238 (section 100 of 148) of the
200Z	1	1			AE000084.1	IN THE	compate ganame
3	J	32425	0.33	4.6E-01 A	AF115340.1	Z	Bacillus subulis Boma (boma) gene, complete cds
7149	19862	32680	2.88	4.8E-01	U62332.1	NT	Emericalia nidulans NEMPA (nempA) gene, mitochondrial gene encoding putative mitochondrial protein, complete cds
7149	19862	32681	2.88	4.6E-01	U62332.1	IN	Emericella nidulans NEMPA (nempA) gene, mitochondrial gene encoding putative mitochondrial protein, complete cds
7879	24834		0.71		<u> </u>	Z.	Murine oxformegalovirus e1 protein gene, complete eda
07770	L	000	6	10 1	, 1,000,14		nh04h05.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943353 similar to contains Alu repetitive
8/78	CRONZ	1	0.82	4.65-01	4.6E-01 AA493577.1	EST_HUMAN	element, contains element L1 repailitive element;
			· ·				GENOME POLYPROTEIN [CONTAINS: N-TERMINAL PROTEIN (P1); HELPER COMPONENT PROTEINASE (HC-PRO); PROTEIN P3; 6 KD PROTEIN 1 (8K1); CYTOPLASMIC INCLUSION PROTEIN
8313	20728		0.54	4.6E-01	4.6E-01 Q90069	SWISSPROT	(CI); 6 KD PROTEIN 2 (6K2); GENOME-LINKED PROTEIN (VPG); NUCLEAR INCLUSION PROTEIN A (VI-A) (NI-A) (NI-A)
8386	, ,		0.54	4.6E-01		N	Xyhella fastidiosa, section 177 of 229 of the complete genome
8866	21300	34210	11.32		4.6E-01 BF697399.1	EST_HUMAN	602130953F1 NIH_MGC_56 Homo saplens cDNA clone IMAGE:4287828 5'
9552	21966	34889	1.76	4.6E-01 P	P65202	SWISSPROT	ATRIAL NATRIURETIC PEPTIDE RECEPTOR B PRECURSOR (ANP-B) (ANPRB) (GC-B) (GUANYLATE CYCLASE)
9552	21966	34890	1.76	4.6E-01	4.6E-01 P56202	SWISSPROT	ATRIAL NATRIURETIC PEPTIDE RECEPTOR B PRECURSOR (ANP-B) (ANPRB) (GC-B) (GUANYLATE CYCLASE)
10015	22417	35365	1.77	4.6E-01	4.6E-01 AI915634.1	EST HUMAN	Wg73e12.xf Soares NSF F8 9W OT PA P S1 Homo saplens cDNA clone IMAGE:23707663'
10015	ı		1.77	4.6E-01	4.6E-01 AI915634.1	EST_HUMAN	wg73e12.x1 Scares, NSF F8 9W OT PA P S1 Homo saplens cDNA clone IMAGE:2370766 3
11224			7.41	4.6E-01 A	AF019369.1	NT	Human thiopurine methytransferase (TPMT) gene, exon 10 and complete cds
11224	22876	35852	7.41	4.6E-01 A	AF019369.1	N	Human thiopurine methyltransferase (TPMT) gene, exon 10 and complete cds
11881	24117		1.37	4.6E-01 D	D53316.1	EST HUMAN	HUM105F03B Clontech human fetal brain polyA+ mRNA (#9535) Homo sapiens cDNA clone GEN-105F03
1867	14389	26880	0.89	4.5E-01	4.5E-01 AE001931.1	NT	Delnococcus radiodurans R1 section 68 of 229 of the complete chromosome 1
1867	14389	26881	0.89	4.5E-01	4.5E-01 AE001931.1	NT	Deinococcus radiodurans R1 section 68 of 229 of the complete chromosome 1

ŀ					5	ישום בעמון בומי	Single Exoli Flobes Expressed in Lung
Probe SEQ ID (S NO:	Exam SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
2823	15379	27793	5.56	4.5E-01	AA677086.1	EST_HUMAN	255002.s1 Soares, fetal, liver, spleen, 1NFLS, S1 Homo septens cDNA clone IMAGF 452179.31
3270	15821	28237	0.66	4.6E-01	AW083761.1	EST_HUMAN	xc25c08.x1 NCI_CGAP_Cc19 Hamo saplens cDNA clane IMAGE:2685290 3' similar to gb:L07807 DYNAMIN-1 (HUMAN);
3270	15821	28238	0.66	4.5E-01	AW083761.1	EST_HUMAN	xc25c08.x1 NCI_CGAP_Co19 Homo sapiens cDNA clone IMAGE:2585290 3' similar to gb:L07807 DYNAMIN-1 (HUMAN);
3284	15833	28251	5.64	4.5E-01	005793	SWISSPROT	BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR (HSPG) (PERI FCAN) (PI C)
3355	15901	28321	1.14	4.5E-01	AF126378.1	<u>F</u>	Mus musculus DNA polymerase ensilon catalytic cribinat (Pole) years grown 2 thurst 42
4042	16574		1.23	4.5E-01	028247	SWISSPROT	COLLAGEN ALPHA SIVI CHAIN
4089	16620	29009	0.83	4.5E-01		EST HUMAN	8596609 X1 Barstead aorta HPLRB6 Homo santens cDNA clime MAAGE-2283490 2
4193	17995		6.11	4.5E-01	AW873495.1	EST HUMAN	ho80g02x1 Soares NFL T GBC S1 Homo sepiens dDNA clone IMAGE: 3741840 3
5025	17535	29907	F	4.5E-01		EST_HUMAN	601657225R1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3886023 31
6813	18333	31056	1.33	4.5E-01	AW608814.1	EST HUMAN	QV2-PT0012-140100-031-c09 PT0012 Homo septiens cDNA
<u>ള</u>	1950		1.6	4.5E-01	Q00956	SWISSPROT	COAT PROTEIN
7894	20333	33200	0.99	4.5E-01	M37036.1	N	Rat nucleolar proteins B23.1 and B23.2
8136	20559	33435	271	4.5E-01	A1858849.1	EST HUMAN	wi32e02.x1 NCI_CGAP_Ut1 Homo sepiens cDNA clone IMAGE:2426618 3' similer to TR:Q82823 Q82823 SW/ISNF COMPLEX 170 KDA SHIPI INIT
8857	21291		1.06	4.5E-01	M32661.1	Į.	D.melanogaster Shaw2 protein mRNA complete Ac
336	21369	34282	3.1	4.5E-01	AI648596.1	T_HUMAN	E56911 x1 NCI_CGAP_Ov35 Homo sapiens cDNA clone IMAGE:2292844 3'
9043	21475	34388	0.83	4.5E-01	052728	TORGEN	POLY-BETA-HYDROXYBUTYRATE POLYMERASE (POLY(3-HYDROXYBUTYRATE) POLYMERASE) (PHB POLYMERASE) (PHB SYNTHASE) (POLY(3-HYDROXYALKANOATE) POLYMERASE) (PHA POLYMERASE) (PHA SYNTHASE) (POLY(3-HYDROXYALKANOATE) POLYMERASE) (PHA
9200	21632		1.78	4.5E-01		Z	Homo seziens hyddhetical profein DKEZnE477349 (DKEZnE47549)
	22398	-	0.95	4.5E-01	9630816 NT	Į.	Bombyx mar nuclear polyhedrasis virus complete senome
_	22770	35738	25.32	4.5E-01	M86006.1	EST HUMAN	EST02631 Fetal brain. Stratagene (catt636206) Homo saniens CDNA Anne HEBOVA7
10370	22770	35739	.25.32	4.5E-01	M86006.1	EST_HUMAN	EST02531 Fetal brain, Stratagene (catt836206) Homo seplens cDNA clone HFBCV17
10645	23085	36070	4.04	4.5E-01	AW591271.1	FST HUMAN	xo14h01.x1 NCI_CGAP_Ut3 Home sapiens cDNA done IMAGE:2703985 3' similar to SW:INTe_MOUSE_ 064255 VIRAL INTEGRATION SITE DEPOTED INT B. 13.
	24941		3.15	4.5E-01	BE871461.1	Г	601449201F1 NIH MGC 65 Homo seniens china Managense F
_	24120		1.46	4.5E-01	AJ132045.1	Г	Theileria annulata shAT2 aene
_ (24383		1.33	4.5E-01	BF337531.1	T HUMAN	602035275F1 NCI CGAP Brn64 Home seniens CDNA clane MAGGE-4483300 E
12379	24423		4.96	4.5E-01	11422099 NT		Homo saplens testis-specific kinase 2 (TESK2), mRNA

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Sœurce	Top Hit Descriptor
2287	14794	27313	12.1	4.4E-01	P49765	SWISSPROT	VASCULAR ENDOTHELIAL GROWTH FACTOR B PRECURSOR (VEGF-B) (VEGF RELATED FACTOR)
3281			1.55		AF058790.1	LZ	Rettus narvegicus SynGAP-b mRNA, complete cds
3281	15830	28249	1.55	4.4E-01	AF058790.1	N	Rattus norvegicus SynGAP-b mRNA, complete cds
3286		28253	2.37	4.4E-01	BF056726.1	EST_HUMAN	7/91d02.y1 NCI_CGAP_Br16 Homo saplens cDNA clone IMAGE:3383795 5'
4251			1.45	4.4E-01	BE378707.1	EST_HUMAN	601237139F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3609393 5'
5676			0.69		P04929	SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
5676				4.4E-01	P04929	SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
6958				4.4E-01	S65019.1	Z	mucin [rats, Sprague-Dawley, sulfur-dioxide-treated tracheal epithelium, mRNA Partial, 390 nt]
5976	18552	31237	1.91	4.4E-01	AV720408.1	EST HUMAN	AV720408 GLC Hamo sapiens cDNA clone GLCCSC12 5
6252	18816	31530	1.18	4.4E-01	A1198413.1	EST_HUMAN	q62h11.x1 NCI_CGAP_Bm25 Homo septens oDNA clone IMAGE:1861125 3' similar to TR:Q29168 Q29168 UNKNOWN PROTEIN:
6252	18816	31531	1.18	4.4E-01	Al198413.1	EST_HUMAN	q62h11.x1 NC_CGAP_Bm25 Homo sepiens cDNA done IMAGE:1861125 3' similar to TR:029168 Q29168 UNKNOWN PROTEIN;
6561	19112	31857	1.88	4.4E-01	AW080795.1	EST_HUMAN	xc27e08.x1 NCI_CGAP_Co18 Homo septens cDNA clone IMAGE:2585510 3' similar to TR:095154 095154 AFLATOXIN 81-ALDEHYDE REDUCTASE:
8658	19206		1.31	4.4E-01	AA776132.1	EST_HUMAN	ae85d11.s1 Stratagene schizo brain S11 Homo sapiens oDNA clone IMAGE:970985 3' similar to gb:M16038 TYROSINE-PROTEIN KINASE LYN (HUMAN);
7877		33181	1.01	4.4E-01		NT	Helicobacter pylori 26695 section 49 of 134 of the complete genome
8453	- 1		0.62	4.4E-01	AE001188.1 ·	Ŋ	Treponema pallidum section 4 of 87 of the complete genome
8524			13.46		Z11679.1	NT	S.tuberosum mRNA for induced stolon tip protein (partial)
9185	l				AA056427.1	EST_HUMAN	z169a03.s1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:609836 3'
949				4.4E-01	0.1	NT	HIV-1 Isdate 08107v6 from USA, envelope glycoprotein (env) gene, partial cds
9543	_!				062836	SWISSPROT	ZINC FINGER X-CHROMOSOMAL PROTEIN
10004	⅃	36366			Al268650.1	EST_HUMAN	qo39f09.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1910921 3'
10005	_			4.4E-01	P28922	SWISSPROT	GLYCOPROTEIN B PRECURSOR (GLYCOPROTEIN 14)
10114			5.42		P35590	SWISSPROT	TYROSINE-PROTEIN KINASE RECEPTOR TIE-1 PRECURSOR
10288	- }				S76404.1	NT	beta -HKA=H,K-ATPase beta-subunit [rats, Genomic, 8983 nt, segment 2 of 2]
10288	_}				S76404.1	NT	beta -HKA=H,K-ATPase beta-subunit (rats, Genomic, 8983 nt, segment 2 of 2)
11863	- 1	30997			6677874 NT	TN	Mus musculus sodium channel, type X, alpha polypeptide (Scn10a), mRNA
11874	- 1				AL163282.2	NT	Homo saplens chromosome 21 segment HS21C082
12346		30890	"			NT	Autographa californica nucleopolyhedrovirus, complete genome
12458	_1				P54725	SWISSPROT	UV EXCISION REPAIR PROTEIN PROTEIN RAD23 HOMOLOG A (HHR23A)
428	13002	25428	2.69	4.3E-01	AF155218.1	NT	Callithrix jacchus MW/LW opsin gene, upstream flanking region

	Top Hit Descriptor	1 flanking region	saplens cDNA	saplens cDNA	saplens cDNA	ı flanking region) flanking region	fragment No. 14		1-B-ASSOCIATED TRANSCRIPT 2)	A-B-ASSOCIATED TRANSCRIPT 2)	appens cDNA	ne pertiel ods				s cDNA clone IMAGE 4158298 5'	or (LACI) gene, exon 2	(flaC-flat) genes, complete ods		NA clone IMAGE-2888554 5	NA clone IMAGE:2968554 6		PRECURSOR	ete gename	: cDNA clone IMAGE:1879945 3'	788iE1 fetal brain cDNA Homo sapiens cDNA clone 788iE1-K similar to R07879, Z40498	tolens cDNA		aplens cDNA	nj89h01.s1 NCI_CGAP_P10 Home saplens cDNA clone IMAGE:997777 similar to gb:M33600 HLA CLASS II HISTOCOMPATIBILITY ANTIGEN DR-3 RETA CHAIN (HINAAN).	ns cDNA close IMAGE: 28278 4'	9. complete cds	JA Alone IRAA CE. AAOBAOS EL
Omigie Evoli riones Expressed in Lung		Callithrix facchus MW/LW opsin gene. upstream flanking region	QV4-SN0024-200400-183-b01 SN0024 Homo sapiens cDNA	CM2-DT0003-010200-077-c01 DT0003 Homo sepiens cDNA	MR0-BN0070-270300-008-004 BN0070 Homo saolens cDNA	Callithrix Jacchus MW/LW opsin gene, upstream flanking region	Callithrix jacchus MW/LW opsin gene, upstream flanking region	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 14	Xestia c-nigrum granulovirus, complete genome	LARGE PROLINE-RICH PROTEIN BATZ (HLA-B-ASSOCIATED TRANSCRIPT 2)	LARGE PROLINE-RICH PROTEIN BAT2 (HLA-B-ASSOCIATED TRANSCRIPT 2)	QV1-HT0638-070500-191-d08 HT0638 Homo saplens cDNA	Saimiri sciureus olfactory receptor (SSC188) gene partial cds	Coturnix coturnix japonica ifing gene	Equus caballus microsatellite LEX027	DNA GYRASE SUBUNIT B	602023134F1 NCI CGAP Brn67 Homo sablens cDNA clone IMAGE: 4158298 5	Human Ipoprotein associated coagulation inhibitor (LACI) gene exon 2	Methanococcus voltae flagella-related protein C-i (flaC-flat) genes, complete ods	Erwinia amylovora rosV gene	hh74e10.y1 NCI CGAP GU1 Hamo sapiens cDNA clone IMAGE-3988554 5	hh74e10.y1 NCL CGAP GU1 Hamo sapiens cDNA clone IMAGE:2968554 6	Streptomyces coelicolar whilh gene	CELL DIVISION PROTEIN FTSH HOMOLOG PRECURSOR	Xyella fastidiosa, section 93 of 229 of the complete genome	q194b01x1 Soares_NhHMPu_S1 Hamo saplens cDNA clone IMAGE:18799453	788iE1 fetal brain cDNA Homo sapiens	QV0-LT0015-180200-127-h01 LT0015 Homo sapiens cDNA	SOX-8 PROTEIN	RC5-BT0559-020300-013-E08 BT0559 Homo seplens cDNA	nj89h01.s1 NCI_CGAP_Pr10 Homo sapiens cDNA clone IMAGE:997	V77e01.r1 Soares Infant brain 1NIB Homo saraisms cDNA clone IMAGE 28278 4	Human familial Alzhetmer's disease (STM2) gene, complete cds	801879721F1 NIH MGC 55 Homo saniana PNNA plana 1848 CE:4408409 E
חום בצחון בוח	Top Hit Database Source	뉟	EST HUMAN	EST HUMAN	EST HUMAN	N	F	Į.	LN-	SWISSPROT	SWISSPROT	EST HUMAN	-N	LN	L	SWISSPROT	EST HUMAN	N	LN	Z	EST HUMAN	EST_HUMAN	Z	SWISSPROT	Ę	EST HUMAN	EST_HUMAN	EST HUMAN	SWISSPROT	EST_HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN
	Top Hit Acession No.	AF155218.1	AW866550.1	AW935269.1	AW999477.1	AF155218.1	AF155218.1	AL161502,2	9635250 NT	P48634	P48634	BE181655.1	AF179825.1	AJ001678.1	AF075629.1	033367	BF348001.1	M58643.1	U97040.1	Y14604.1	AW630048.1	AW630048.1	AJ003022.1		AE003947.1	Al280338.1	N81203.1	AW835527.1	Q04886	BE073574.1	AA534093.1	R13467.1		3F242055.1
	Most Similar (Top) Hit BLAST E Value	4.3E-01			4.3E-01	_	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01	4.3E-01		4.3E-01	4.3E-01	4.3E-01		4.3E-01	4.3E-01	4.3E-01		-	-	_	_	_	_		4.2E-01	4.2E-01	4.2E-01	_	4.2E-01
	Expression Signal	2.69	0.92	1.27	6.0	1.27	1.27	1.07	0.93	0.95	0.95	1.22	1.83	. 4.3	0.58	1.03	1.64	0.51	2.96	1	2.37	2.37	2.22	1.31	4.48	1.01	0.79	0.65	1	2.54	3.19	4.4	5.65	1.77
	ORF SEQ ID NO:	25429	76622		27987		26429			30906	30606	31447	31467	32408	32709					34905	35191	35192		26382	28552	28685		28827	28933		29641	29728		31249
	Exon SEQ ID NO:	13002	14151	15381	15576	13002	13002	17554	17770	18207	18207	18746	18764	19614	19884	19774	20352	20833	21385	21979	22255	22255	24545	15308	16143	16177	17994	16422	16530	17208	17261	17345	17703	18563
	Prabe SEQ ID NO:	428	1620	2825	3021	4431	4434	5044	5269	9620	5620	6178	6198	7080	7171	7269	7913	8419	8952	9516	9852	9852	12562	1380	3603	3637	3708	3887	3986	4690	4747	4833	5200	5987

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Single Excitations Expressed III Edity	Top Hit Descriptor	RC3-CT0254-060400-029-g04 CT0254 Homo sapiens cDNA	Homo saplens chromosome 21 segment HS210047	AU158472 PLACE2 Homo saplens cDNA clone PLACE2000470 3'	AU158472 PLACE2 Homo sepiens cDNA clone PLACE2000470 3'	Broat Horeast cancer gene (rats, WF, spleen, Genomic, 419 nt, segment 2 of 2)	Arabidopsis thallana DNA chromosome 4, contig fragment No. 47	Homo saplens chromosome 21 segment HS210052	EST369413 MAGE resequences, MAGE Homo saplens cDNA	EST369413 MAGE resequences, MAGE Homo saplens cDNA	MR3-SN0010-280300-103-h07 SN0010 Homo saplens cDNA	Oryzias latipes OIGC7 mRNA for membrane guanyly cyclase, complete cds	tg10c05x1 NCL_CGAP_CLL1 Homo saptens cDNA clone IMAGE:2108360 3'	RC-BT091-210199-142 BT091 Homo sepiens cDNA	AV705243 ADB Homo sepiens cDNA clone ADBAHF08 5	AV705243 ADB Homo saplens cDNA clone ADBAHF08 6'	Homo sepiens anaphase-promoting complex subunit 7 (APC7), mRNA	Arabidopsis thallana DNA chromosome 4, contig fragment No. 36	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 36	EST373364 MAGE resequences, MAGG Homo sepiens cDNA	EST373364 MAGE resequences, MAGG Homo saplens cDNA	Rhodococcus sp. AD45 isoG, isoH, isoJ, isoA, isoB, isoC, isoD, isoE and isoF genes	om33d02.s1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE;15428193'	AV747880 NPC Hamo sapiens cDNA clone NPCBDF10 5'	Homo sepiens aggrecan 1 (chondrollin sulfate proteoglycan 1, large aggregating proteoglycan, antigen identified by monoclonal antibody A0122) (AGC1), transcript variant 2, mRNA	Homo sapiens aggrecan 1 (chondrollin sulfate proteoglycan 1, large aggregating proteoglycan, entigen identified by monoclonal antibody A0122) (AQC1) transcript variant 2 mRNA	602156580F1 NIH MGC 83 Homo seniens cDNA clone IMAGE-4297319 5	Mus musculus NIH 3T3 chemoldine rantes (Scya5) gene, complete cds	Methanococcus jannaschii section 77 of 150 of the complete genome	Bos taurus osteoadharin mRNA, complete cds	Homo sapiens aromatic decarboxylase gene, exon 4	602133261F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4288238 5'
BIG LAGII 1-10	Top Hit Database Source	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN	L	LN	LN	EST HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	EST HUMAN	4	EST_HUMAN	K	N	Z	EST HUMAN	EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	L Z	Į.	EST HUMAN	NT	L	N	N	EST_HUMAN.
	Top Hit Acession No.	AW854162.1	AL163247.2	AU158472.1	AU158472.1	S82504.1	AL161547.2	AL163252.2	AW957448.1	AW957448.1	AW863666.1	AB023489.1	Al392837.1	AIB05481.1	AV705243.1	AV705243.1	7705283 NT	AL161536.2	AL161536.2	AW961292.1	AW961292.1	AJ249207.1	AA909257.1	AV747880.1	C995993 NT	6995993 NT	BF681393.1	U02298.1	U67535.1	U67279.1	M84594.1	BF574604.1
	Most Similar (Top) Hit BLAST E Value	4.2E-01	4.2E-01		4.2E-01	4.2E-01	4.2E-01	4.2E-01	4.2E-01	4.2E-01		4.2E-01		4.1E-01	4.1E-01	4.1E-01	4.1E-01	4.1E-01			4.1E-01			4.1E-01	4.1E-01	4.1E-01	4.1E-01	4.1E-01	4.1E-01		4.1E-01	4.1E-01
	Expression Signal	2.89	1.03	11.36	11.36	2.69	6.91	0.61	4.4	4.4	1.75	1.79	1.67	1.71	1.27	1.27	4.7	2.32	2.32	0.65	0.65	3.1	1.09	1.19	0.65	0.65	5.19	0.64	2.59	0.41	0.46	1.64
	ORF SEQ ID NO:		31815		32634	32769	32817	33394			35740	36244		26104	20113			27871				29200		29610	30195	30196	31574	32421		33711		33998
	SEQ ID NO:			19819	19819	24630	19983	20516	21064	21084	22771	23259	24572	13665	13674	13674	15155	15448	15448	16310	16310	16816	16847	17226	17837	17837	18853	19625	20355	20813	20890	21092
	Probe SEQ ID NO:	6062	6219	7362	7362	7432	7532	8088	8629	8629	10371	10823	12596	1121	1130	1130	2662	2894	2894	3772	3772	4291	4324	4730	5338	5338	6291	7091	7917	8399	8477	8657

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9401	21833	34747	1.83	4.1E-01	6755521 NT	TN	Mus musculus signaling Intermediate in Toll pathway-evolutionarily conserved (Sitpec-pending), mRNA
10218			1.24	4.1E-01	AL139076.2	NT	Campylobacter Jejuni NCTC11168 complete genome; segment 3/6
10311	22711	35677	- 1.2		AV649579.1	EST_HUMAN	AV649579 GLC Homo sepiens cDNA clone GLCBVD123'
10417			1.24		BF349382.1	EST_HUMAN	CM2-HT0137-200999-010-e08 HT0137 Homo sepiens cDNA
10618	_	·	50.18		X58700.1	TN	Zea mays ZMPMS2 gene for 19 kDa zein protein
11144		35804	1.7	4.1E-01	Q09470	SWISSPROT	VOLTAGE-GATED POTASSIUM CHANNEL PROTEIN KV1.1 (HUKI) (HBK1)
12218	24918		2.43	4.1E-01	D87675.1	ĮN.	Homo sapiens DNA for amyfold precursor protein, complete cds
1064	13609		1.06	4.0E-01	4	NT	Laqueus rubellus mitochondrion, complete genome
1371	13906	26362	1.19	4.0E-01	AF203478.1	N	Drosophila melanogaster Dalmatian (dmt) mRNA, complete cds
1513	14045		3.72	4.0E-01	6879258 NT	N _T	Mus musculus platelet derived growth factor receptor, beta polypeptide (Pdgfrb), mRNA
2763	12751	25170	1.71	4.0E-01	6878490 NT	NT.	Mus musculus ubiquitin-protein ligase e3 componen n-recognin (Ubr1), mRNA
2921	15476		1.35	4.0E-01	AL16328	NT	Homo sepiens chromosome 21 segment HS21C080
2921	15476	27899	1.35		AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
							Streptococcus pneumoriae YIIC (yIIC), YIID (yIID), penicilin-binding protein 2x (pbp.2x), and undecaprenyl-phosphate-UDP-MurNAc-pentapeptide phospho-MurNAc-pentapeptide transferase (mraY) genes, complete
3692	- 1		2.22		AF068903.1	NT	cds
3837	16374		3.32		AJ277511.1	F	Ovis aries partial JD2 gene for T cell receptor deta chain (TCRDJ2), exon 1
3837	16374	28776	3.32	4.0E-01	AJ277511.1	K	Ovis aries partial JD2 gene for T cell receptor della chain (TCRDJ2), exon 1
4874			8.94	4.0E-01	031849	SWISSPROT	NADH-PLASTOQUINONE OXIDOREDUCTASE CHAIN 5, CHLOROPLAST
6203		31473	1.15	4.0E-01	AW970610.1	EST_HUMAN	EST382691 MAGE resequences, MAGK Homo saplens cDNA
6416	18973	31707	0.49	4.0E-01	BF243741.1	EST_HUMAN	601877853F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4106221 5'
6778	19321	32087	0.85	4.0E-01	P27285	SWISSPROT	STRUCTURAL POLYPROTEIN (P130) [CONTAINS: COAT PROTEIN C ; SPIKE GLYCOPROTEINS E3. E2. AND E1: 8 KD PEPTIDE]
9344		34682	1.08	4.0E-01	AA323289.1	EST HUMAN	EST26086 Cerebellum II Homo sapiens cDNA 5' end similar to EST containing Alu repeat
11319			1.75		BF030262.1	EST_HUMAN	601558283F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3828092 5
11443	23803		1.88		L76080.1	F	Synechocystis sp. PCC 9413 transposase gene, complete cds
11880			2.41	4.0E-01	AL163300.2	ΙN	Homo saplens chromosome 21 segment HS21C100
12430			1.18		249301.1	IN.	S.cerevisiae chromosome X reading frame ORF YJL026w
12457			1.33	4.0E-01		SWISSPROT	HYPOTHETICAL 49.7 KD PROTEIN IN GINZ-STE3 INTERGENIC REGION
12554			1.34		4	LN	Campylobacter Jejuni NCTC11168 complete genome; segment 2/6
1410	- 1		3.08		AF206618.1	NT	Gorilla gorilla carboxyl-ester lipase (CEL) gene, complete cds
2578	- 1	1	4.5		AB033019.1	NT	Homo saplens mRNA for KIAA1193 protein, partial cds
2655	15148	27658	2.83	3.9E-01	X82032.1	NT	H.sapiens B-myb gene

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Chigae Expressed in Lung	Top Hit Descriptor	H.sablens B-mvb cene	Shorhizobium malifoli ani aum 20 aug agus and auf	781401 x1 NCI COAP RIGHT contemp contemp contemp contemp (NA OF contemp contem	801863948F1 NIH MGC 20 Home and the Court of	60/882382F1 NIH MGC 53 Homo sepiens CDIVA done INVACE:3833889 5	Homo saplens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and bighoan (BGN)	genes, complete cds; and plasma membrane calcium ATPase isoform 3 (PMCA3) gene, partial cds	Homo sapiens prepro dipeptidyl peptidase I (DPP-I) gene, complete cds	ONIG-CTO 1003-T 100595-004-008 CT07103 Hamo septens cDNA x88804 x1 Socres NFL_T_GBC_S1 Homo septens cDNA clone IMAGE:2701351 3' similar to TR:094621 DOMAN K1AA0743 DE OTEIN.	Wp76s02.x1 NCI_CGAP_Brings Hono sapiens cDNA clone IMAGE:2467658 3' similar to	SW. INFAS_THUMAN P4638Z BINDING REGULATORY FACTOR.;	AVERBOAT CIVE U	FST473277 MACE	EST37327 MAGE (estaquences, MAGE Homo sapiens cDNA	CO 1313221 WAGE resequences, MAGE Homo septens cDNA Homo septens materialisms 3 (DD/S)	HOMEOROX PROTEIN HI YA	Themotoca maritima saction 123 of 138 of the commists access	Homo sapiens hypothetical protein El 10583 (Fl. 10583) DNA	Homo saplens protein kinase PKNbeta (pknbeta) mRNA	Mus musculus pcm-1 mRNA for pericentriolar material-1 complete cde	Xyella fastidiosa, section 16 of 229 of the complete genome	Arabidopsis thallang putative c-mvb-like transcription fector (MVR2D 3) DNA	Mus musculus solute carrier family 1 mamber 8 /States month	Human immunodeficiency virus type 1 complete general (calcte obser Arbanaa)	Pleuronectes americanus ambonantidaea N (amaN) and business and services are services and services and services and services are services and services and services and services and services and services and services are services and services and services and services and services are services and services and services and services are services are services and services are servic	Arabidonsis thallana DNA chemicana 4 continues to 18	W38b12x1 Spares NF T GRC S1 Home content of the con	W38b12.x1 Soares NFL T GBC S1 Homo saplens CDNA close IMAGE:235 555	Danio rerio blue-sensitiva cosin (bluors) mRNA complete ada	Sport (Accept) (Milliant) Confidence on a
gie Exoli Pio	Top Hit Database Source	۲	Ā	EST HUMAN	EST HUMAN	EST HUMAN			FOR LEADING	EST HIMAN	TOT	TN	EST HIMAN	EST HIMAN	EST HIMAN	IN	SWISSPROT	M	N	N	NT	ZI.	N	卢	Į.			T HUMAN	Г	Γ	
5	Top Hit Acessian No.	3.9E-01 X82032.1	3.9E-01 AJ225896.1			3.9E-01 BF208036.1	o acecei	1704454	3.9E-01 079416.1	3.9E-01 AW195888.1				3.9E-01 AW981155 1		ı	l	3.9E-01 AE001811.1	11433335 NT	7019488 NT		£003870.1		6678002 NT	J251057.1	3.8E-01 AF043383.1			3.8E-01 AI807219.1		
	Most Similar (Top) Hit BLAST E Value	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01		2 OE 04 1 170445 4	3.8F-0-1	3.9E-01	3.95-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.8E-01	3.8E-01 /	3.8E-01 /	3.8E-01 AI	3.8E-01	3.8E-01 AJ	3.8E-01	3.8E-01	3.8E-01	3.8E-01	3.8E-01 △	2 8E 04 A
	Expression Signal	2.83	4.16	1.81	1.86	2.33	28.0	08 0	1 17		1.65	2.9	8.71	2.19	2.19	4.06	1.65	1.41	1.28	8.83	2.41	0.91	5.38	3.07	0.97	1.94	10.64	0.62	7.0	2.01	201
	ORF SEQ ID NO:			29018	29966	31503	31803	33036	34604	34856	35080	35302		36928	36928			30996		1			27601	27577		27977	28422			28528	28529
	Exon SEQ ID NO:	15148	ı			18795	19155		ı	21832	22149	22353	23046	23865	23855	24845	24048	24102	24394	12769	13085	14362	14988	15341	15513	15583	16003	16064	16084	16113	16113
	Probe SEQ ID NO:	2665	3058	4095	6091	.6230	6604	8599	9261	9501	9727	9951	10602	11497	11497	11641	11770	11854	12323	<u>\$</u>	3		248/	2203	2928	88	3459	3521	3539	3571	3571

Table 4
Single Exon Probes Expressed in Lung

					Y		
Probe SEQ (D NO:	SEQ ID	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3930	16465	28873			6754095 NT	NT	Mus musculus general transcription (actor II I (Gtf2I), mRNA
5257	17758	30127	4.76	3.8E-01	BE544653.1	EST_HUMAN	601074110F1 NIH_MGC_12 Hamo saplens cDNA clone IMAGE:3480154 5'
5877	18456	31130	0.92	3.8E-01	Q04888	SWISSPROT	TRANSCRIPTION FACTOR SOX-10
6999	19217		85.0	3.8E-01	S46825.1	IN	prion protein [mink, Genomic, 2448 nt]
6985	19522	32304	6.2	3.8E-01	BE072399.1	EST_HUMAN	QV3-BT0537-271299-049-602 BT0537 Homo sepiens cDNA
;							ta54f11.x1 Soares_total_fetus_Nb2HF6_9w Homo septens cDNA clone IMAGE:2047917 3' similar to
7141	19854	32674	4.75	3.85-01	AI374601.1	EST HUMAN	contains Alu repeture etement; Arahidansie Italiana DNA chromosoma 4 contin francent No. 25
2000	1	90000		20.0	A A 606074 4	POT LINAANI	ATTENDED TO THE TOTAL THE TOTAL TOTAL THE TOTA
	1	1		1	X64507 4	EST TOWAIN	Memoral in good for hellings bladfan powers
8022	- 1				X61697.1	2	M.m.sculus gene for waind ein-cultung protein
8275	ŀ		0.57	3.8E-01	21	LN	Yeast miltochondrial gene for ATPase (genes oil-2 and oil-4)
9041					AB0468	NT	Homo sapiens mRNA for KIAA1631 protein, partial cds
8087	21519	34428	0.89	3.8E-01	11441264 NT	LN	Homo saplens FOS-like antigen-1 (FOSL1), mRNA
7228	21659	34568	1.44		AL163279.2	FN	Homo sapiens chromosome 21 segment HS21C079
							ye43h06.r1 Soares fetal liver spleen 1NFLS Homo saplens cONA clone IMAGE:120539 6' similar to contains
9741	22068		4.32			EST_HUMAN	Alu repetitive element;contains PTR5 repetitive element ;
11289	23654				BE719219.1	EST_HUMAN	RC0-HT0841-040800-032-b12 HT0841 Homo sepiens cDNA
11421	23782		3.28	3.8E-01	R42550.1	EST_HUMAN	yf92h11.s1 Soeres Infant brein 1NIB Homo eaplens cDNA clone IMAGE:30289 3'
11421	23782	36843	3.28	3.8E-01	R42550.1	EST_HUMAN	yf9Zh11.s1 Soares Infant brein 1NIB Homo saptens cDNA clone IMAGE:30289 3'
11864	24109		3.38		AE001124.1	NT	Borrelia burgdorfert (section 10 of 70) of the complete ganome
11994	24867		2.04		U94788.1	N	Human p53 (TP63) gene, complete cds
12117	24259		1.94	3.8E-01		EST_HUMAN	QV3-ET0063-190700-271-a05 ET0063 Homo sapiens cDNA
12563	24841					NT	Mus musculus vomeronasal receptor V1RA4 (V1ra4) gene, complete cds
2381	14885	27405			AB037831.1	NT	Homo sapiens mRNA for KIAA1410 protein, partial cds
3437	15981		,		AF056336.1	TN	Danio rerio bone morphogenetic protein 4 precursor (BMP4) gane, complete cds
3878	16413		0.66		AA319482.1	EST_HUMAN	EST21715 Adrenal gland fumor Homo sapiens cDNA 6' end
4245	16770		10.71		1	EST_HUMAN	ok39c07.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1510188 3'
4342	16864		1.26		1	EST_HUMAN	MR3-OT0007-080300-104-b02 OT0007 Homo saplans cDNA
4412					_	NT	Neisserla meningitidis serogroup B strain MC58 section 50 of 206 of the complete genome
6043					_	NT	Homo sapiens interferon-Induced protein p78 (MX1) gene, complete cds
6248		31527		·	AL16327	NT	Homo saplens chromosome 21 segment HS21C078
6415	18972		0.71	3.7E-01		NT	Mus musculus nuclear factor, erythrold derived 2, like 3 (Nfe2i3), mRNA
6860		32176			_	NT	Chicken (White leghorn) delta-1 and delta-2 crystallin genes, complete cds
6881	19421		0.81	3.7E-01	L10353.1	N	Mus saxicola haptoglobin mRNA, complete cds

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| Top Hit Descriptor | Drosoohila melanodaster sugar transporter 3 (surt3) mRNA complete cole | H.sapiens serotonin transporter gene, exons 9 and 10 | H.saplens serotonin transporter gene, exons 9 and 10 | RCI-HT0545-150600-014-b12 HT0545 Home sanisms CDNA | Brassica napus mRNA for MAP4K abha2 protein | Zmays mRNA for caseln kinase II abha subunit | ha02g04x1 NOI CGAP Lu24 Homo sapiens cDNA clone IMAGE-2872568 3' | WR4-BT0358-270300-005-c10 BT0358 Homo sabiens cDNA | Teponema pallidum section 3 of 87 of the complete genome
 | Sacillus brevis DNA for drsT, drsA and drsB dene fragment | 1881E1 fetal brain cDNA Homo saplens cDNA clone 7881E1-K similar to R07870 740409 | 19mo sapiens lipe gene intron 5 | FORMATE HYDROGENLYASE SUBUNIT 6 PRECURSOR (FHL SUBUNIT 5) (HYDROGENASE-3 | domo sabiens PHEX dene | 174906.11 Soares fetal liver spleen 1NFI S Homo capiens CDNA clare 144.05:075007 #
 | W72c10.x1 Sozres_thymus_NHFTh Homo saplens cDNA clone IMAGE:2513010 3' similar to TR:015117 015117 FYN BINDING PROTEIN. 11:

 | ส94ท12.x1 NCI_CGAP_Co17 Home sepiens cDNA clone IMAGE:2574503 3' strailar to contains element
 | Vabidoosis thallana DNA chromosome 4 confin framment No. 70 | form septens lysosomal-associated membrane protein 2.0 AMD2) transcript variant I AMD26 DNA | form saplens lysosomal associated mambrass and a 1800)

 | dono sabians chromosoma 21 segment HS34C004 | melanodaster sinned dana avone 3 4 K.R.
 |) melanopaster singed gane awns 3 4 8 8 | POBABLE PEPTIDE ARC TRANSPORTER ATP BINDING BROTTEIN VATE | 01876418F1 NIH MGC 21 Homo sanlens cDNA clone IMAGE 3088007 F | Irabidopsis thailana mRNA for SidB, complete cris
 | Mus musculus T-oell receptor V region delta 1 chain gene. 57 region | Methanobacterium thermoautotrophicum from bases 702375 to 714311 (section 62 of 148) of the complete genome |
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 | 2.79 | 3.41 | 0.66 | 0.94 | 1.68 | 3.95
 | 1.91

 | 0.44
 | 10.86 | 2.82 | 2.82

 | 1.15 | 1.03
 | 1.03 | 18.01 | 5.55 | 4.08
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 | 36401 | 35818 | | | | | | | |
| S | L | | | | | | | _ |
 | | | 18225 | 18951 | |
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 | 21900 | 22034
 | 22034 | 22343 | 23162 | 23323
 | 23380 | 22845 |
| Probe
SEQ ID
NO: | 2862 | 3445 | 3445 | 4433 | 4792 | 4808 | 5111 | 5241 | 5409
 | 5428 | 2436 | 5638 | 6394 | 6824 | 7688
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17982 Expression
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Top Hit Descriptor	xd10b05.x1 NCI CGAP Ov23 Homo sablens cDNA clone IMAGE 2592329 3	Homo sapiens hHb5 dane for heir kerelin exms 1 to 0	Escherichia coli K-12 MG1855 section 225 of 400 of the complete genome	Mus musculus Emri mRNA, complete cds	Homo sapiens myeldd/lymphold or mbœd-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 10 (AF10), mRNA	260e11x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:26791163' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HI IMAN).	Arabidopsis theliene DNA chromosome 4 continuent No 38	Mus musculus mannose recentor C Aoe 2 (Arcs) mania	Arabidopsis thallana DNA chromosoma 4 contin framment No. 77	Homo saplens GAP,like nortein (I OC51308) mEMA	Homo saplens GAP, like profes (1 OC\$1308) mBM	601811060R1 NIH MCC 48 Homo contant Almo CE JARSAGE 5	HOWEOBOX PROTEIN HOX.A4 (HOX.1.4) (MH.3)	2708a09 st Stratanana NT2 national pressures 037230 common common stratage and stra	S 2/9004/2 Gigns IMAGE:0008/2 3	Figurescuer succhrogenes S85 endoglucanase E (celE) and endoglucanase D (celD) gene, complete cds	501845470F1 NIH MIGC 55 Home content of the live live content of the live content of t	nr80d03.s1 NCI CGAP Lym3 Homo sanians cDNA clans INACE: 4773987.91	Danio rerio homeobox protein (hoxbab) gene, complete cds	RC5-HT0218-181099-011-d02 HT0218 Homo sapiens cDNA	Mus musculus Alox12B gene 5' flanking region	788/E1 fetal brain cDNA Homo sapiens cDNA clone 788/E1-K similar to R07870 740408	Rat leukocyte common antigen (L-CA) gene, exons 1 through 5	EARLY E2A DNA-BINDING PROTEIN	EARLY E2A DNA-BINDING PROTEIN	Human mRNA for KIAA0086 game, complete cals	PM4-SN0012-030400-001-e11 SN0012 Homo saplens cDNA	Zw/903.rl Socres_testis_NHT Hamo septens cDNA clone IMAGE:782429 5' similar to TR:G1066935 G1068935 F10F2.1	Bos taurus peptide methlonine sulfoxde reductase (msrA) mRNA, complete cds
Top Hit Database Source	EST HUMAN	N.	L'A	L	N _T	EST HIMAN	LN	Į.	NT	NT.	L	EST HUMAN	SWISSPROT	EST HUMAN	. 1	EST LIBAAN			L	EST HUMAN	F	EST HUMAN	NT	SWISSPROT	SWISSPROT	IN	EST HUMAN	EST HUMAN	NI
Top Hit Acessian Na.	AW088510.1	Y19210.1	AE000335.1	U66888.1	11432598 NT	AW 190229.1	AL161536.2	TN 6678933 NT	AL181581.2	7706136 NT	7708136 NT	3F129796.1	P06798	VA223252.1	105007 4	1	T	VA642138.1		3E146585.1	(18477.1	V81203.1	118349.1	196687			3.5E-01 AW863916.1		3.5E-01 U37150.1
Most Similar (Top) Hit BLAST E Value	3.6E-01	3.6E-01	3.6E-01	3.6E-01	3.6E-01	3.6E-01	3.6E-01	3.5E-01			3.5E-01	3.5E-01		3.5E-01	2 50	3.55.01	1		3.5E-01	3.5E-01	3.6E-01	3.5E-01		3.6E-01	3.5E-01 C	3.5E-01	3.6E-01	3.5E-01 A	3.5E-01 L
Expression Signal	5.05	2.39	4.48	2.89	1.69	1.73	1.97	2.28	4.46	1.8	1.8	3.86	6.0	16.84	3.28	0.64	0.6	0.62	2.36	0.75	2.07	0.65	5.25	1.03	1.03	1.31	1.03	0.77	0.64
ORF SEQ ID NO:	36963						25144	25234		25730	25731	25796	27215	27647		27929			29187	29410	28616	29839	29897	30539	30540	31057		32051	32107
Exan SEQ ID NO:	23880	24979	23991	24095	24345	24920	12731	12818	13259	13305	13305	13361	14691	15340	15147	15509	16242	16349	16804	17031	17235	17463	17522	18175	18175	18394	19	19230	19336
Probe SEQ ID NO:	11522	11593	11682	11846	12240	12532	119	215	269	745	745	802	2180	2533	2854	285	3702	3812	4279	4513	4719	4952	6012	5587	5587	6814	6558	6746	6793

Single Exult Flobes Explessed in Lung	Top Hit Descriptor	GLUCOSE-8-PHOSPHATE 1-DEHYDROGENASE, CHLOROPLAST PRECURSOR (G6PD)	S. scrofa mRNA for CD31 protein (PECAM-1)	HISTIDYL-TRNA SYNTHETASE (HISTIDINETRNA LIGASE) (HISRS)	HISTIDYL-TRNA SYNTHETASE (HISTIDINETRNA LIGASE) (HISRS)	E. coil L-arabinose transport operon with genes araF, araG and araH	Homo sapiens tumor protein p63-binding protein, 2 (TP53BP2), mRNA	Homo saplens tyrosine kinase non-receceptor 1 (TNK1), mRNA	VOLTAGE-DEPENDENT N-TYPE CALCIUM CHANNEL ALPHA-18 SUBUNIT (CALCIUM CHANNEL, L. TYPE, ALPHA-1 POLYPEPTIDE ISOFORM 5) (BRAIN CALCIUM CHANNEL III) (BIII)	X laevis gene for abumin including HP1 enhancer	QV2-HT0577-090400-128-c07 HT0577 Homo sapiens cDNA	C. griseus rhodopsin gene far opsin protein	Gallus gallus SPARC gene for osteonectin, promoter and exon 1	Gallus gallus SPARC gene for osteonectin, promoter and exon 1	Drosophila melanogaster dual bar protein (BarH2) gene, exon 1	B.taurus atpA1 gene for F(0)F(1) ATP synthase alphe-subunit	Thermotoga maritima section 3 of 136 of the complete genome	ys64f11.r1 Scares retina N2b4HR Homo sapiens cDNA clone IMAGE:218597 6'	ys64f11.r1 Scares retina N2b4HR Homo sapiens oDNA clone IMAGE:218597 51	Homo sapiens partial N-myc (exon 3), HPV45 L2, HPV45 L1, HPV45 E6, HPV45 E7 and HPV45 E1 genes isolated from IC4 cardcal carchome cell line	Pseudomonas fluorescens coIR, coIS genes, orf222 and partial inaA gene	QV3-HT0261-241199-019-g10 HT0261 Hamo sepiens cDNA	Azotobacter vinelandii nifA gene for NifA protein (positive regulatory element)	Synechocystis sp. PCC6803 complete genome, 11/27, 1311235-1430418	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 28	Homo sapiens chromosome 21 segment HS21C010	Homo sapiens chromosome 21 segment HS21C010	Canis familiaris rod photoreceptor cGMP-gated channel alpha-subunit (CNGC1) mRNA, complete cds	Homo sapiens pulmonary surfactant protein D, promoter region and exon 1	Methylovorus sp. strain SS1 putative GrpE (grpE), DnaK (dnaK), and putative DnaJ (dnaJ) genes, complete cds
le Exoll Flobes	Top Hit Database Source	SWISSPROT G	NT S.	SWISSPROT HI	ISSPROT	NT			SWISSPROT		EST HUMAN O	NT C.	NT	NT	NT D			EST HUMAN YE	EST_HUMAN IN	Ĭ.		L HUMAN		NT		H		NT	N.	M Σ
Sillo Sillo	Top Hit Acession No.						11448042 NT	4507810 NT	02294		3.5E-01 BE174794.1			243178.1			1	30814.1	H80814.1	1242956.1	19788.2	3.4E-01 AW380120.1		3.4E-01 D90909.1	3.4E-01 AL161518.2		3.4E-01 AL183210.2	3.4E-01 U83905.1	3.4E-01 AF034862.1	-108835.1
	Most Similar (Top) Hit BLAST E Value	3.6E-01 O	3.5E-01 X98505.1	3.5E-01	3.6E-01 P47281	3.5E-01	3.5E-01	3.6E-01	3.5E-01 Q	3.5E-01	3.5E-01	3.6E-01	3.6E-01 AJ	3.5E-01	3.5E-01	3.5E-01	3.5E-01	3.5E-01	3.5E-01 H	3.4F-01 A.	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01	3.4E-01 A
	Expression Signal	0.7	3.62	0.45	0.45	0.43	2.06	1.46	2.05	6.62	1.15	2.28	3.43	3.43	3.4	2.44	3.02	2.41	2.41	1.73	5.98	1.04	2.12	2.43	6.27	0.82	0.82	7.03	0.92	6.61
	ORF SEQ ID NO:	32353		19888				34636	35197		35360	35945	1					30584			25995			27325	L		27933	28086	28282	28478
	Exan SEQ ID NO:	19566	19691	20486			21121	21728	22259		22411	22966	[24814	24814	13288	13551	13553	13893	14807	15111		15512	15673	15884	16056
	Probe SEQ ID NO:	7030	7487	8054	8054	8301	888	8236	9856	6968	10009	10518	10800	10800	11368	11767	12138	12590	12690	727	90	1002	1358	2300	2616	2957	2957	3120	3316	3513

Table 4 Single Exon Probes Expressed in Lung

Probe SEQ ID							
ğ	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3792	16329		1.29	3.4E-01	BF449010.1	EST HUMAN	7n94e01.x1 NCI_CGAP_Ov18 Homo seplens cDNA clone IMAGE:3572232 3' similar to TR:Q9UJ15 Q9UJ15 DJ18C9.1;
4063	16594		1.44	3.4E-01	AA584196.1	EST_HUMAN	no11b10.s1 NCI_CGAP_Phe1 Homo seplens cDNA clone IMAGE:1100347.3'
4689	17205	29584	2	3.4E-01	BE069912.1	EST_HUMAN	MR4-BT0403-230200-202-c01 BT0403 Homo saplens cDNA
4986	17496	29873	1.02	3.4E-01	BE463761.1	EST_HUMAN	hy17d09.x1 NOI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3197585 3' similar to contains L1.t3 L1 repetitive element;
5038	17548		4.85	3.4E-01	Al240973.1	EST HUMAN	q95c05.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1867208 3' similar to contains Alu repetitive element:
5237	17739	30109	1.8		1	NT	Methanococcus jamaschil section 121 of 150 of the complete genome
5393	17890	30248	13.82	3.4E-01	AW002545.1	EST HUMAN	wu10d12x1 NCI_CGAP_GC9 Homo saptens cDNA clone IMAGE:2516567 3' similar to TR:Q13537 Q13537 SIMILAR TO POGO ELEMENT.
5459	17954		1.78	3.4E-01	BE906919.1	EST_HUMAN	601500717F1 NIH MGC 70 Homo saplens cDNA clane IMAGE:3902477 5'
6954	18530	31213	2.72		ıσ	NT	Arabidopsis thallana DNA chromosome 4, contig fragment No. 90
9092	18664		5.24		AA085313.1	EST_HUMAN	zn12d11.s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:547221 3'
6310	18871		1.84	3.4E-01	L02971.1	IN	Echovirus 22 14B, 1C, 1D, 2A, 2B, 2C, 3A, 3B, 3C, 3D proteins RNA. complete mature peorities and cds
6334	18892	31624	0.94	3.4E-01	BE748912.1	EST HUMAN	60157181171 NIH MGC 55 Homo sapiens cONA clone IMAGE:3838826 3'
6419	18976	31709	1.79	3.4E-01	1~	EST HUMAN	UI-H-BI1-ael-e-12-0-UI.s1 NCI CGAP Sub3 Homo sablens cDNA clone IMAGE:27195923'
6555	19107	31851	1.59	3.4E-01	AL120544.1	EST HUMAN	DKFZp761A249_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A249 5'
7123	19656		1.39	3.4E-01	N95225.1	EST HUMAN	2053e12.s1 Soares_fetal_lung_NbHL19W Homo sepiens cDNA clone IMAGE:307342.31
7358	19815	32629	1.27	3.4E-01	A1468082.1	EST HUMAN	tm83g05.x1 NCI_CGAP_Bnz5 Homo sapiens cDNA clone IMAGE:2162840 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN):
7491	19695	32491	0.58	3.4E-01	3.4E-01 BF678702.1	EST HUMAN	602085283F1 NIH_MGC 83 Home sapiens cDNA clone IMAGE:4249365 5
7988	20402	33272	0.64	3.4E-01 B	BE971689.1	EST HUMAN	601651613R1 NIH MGC 81 Homo sapiens cDNA clone IMAGE:3934847 3'
8983	21426		2.01	3.4E-01	AA337063.1	EST_HUMAN	EST41785 Endometrial fumor Homo sapiens cDNA 5' end
9265	21687	34598	1.81	3.4E-01	9633624 NT	IN	Bovine enterovirus strain K2577, complete genome
9485	21916	34839	4.07	3.4E-01	P26013	SWISSPROT	INTEGRIN BETA-8 PRECURSOR
8482	21916	34840	4.07	3.4E-01	P26013	SWISSPROT	INTEGRIN BETA-8 PRECURSOR
9851	20942	33841	5.63	3.4E-01	U19492.1	TN	Saccharomyces cerevislae Maf1p (MAF1) gene, complete cds
8851	20942	33842	5.63	3.4E-01	U19492.1	NT	Saccharomyces cerevisiae Maf1p (MAF1) gene, complete cds
983	22234	35170	0.85	3.4E-01	J68763.1	NT.	Glycine max putative transcription factor SCOF-1 (scof-1) mRNA, complete cds
8862	22364	35315	1.51	3.4E-01	AJ225084.1	ΤN	Hamo saplens FAA gene, exan 16, 17 and 18
10795	23233		4.78	3.4E-01	3.4E-01 AE000881.1	TN	Methanobacterium thermoautotrophicum from bases 1018444 to 1029212 (section 87 of 148) of the complete genome

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	Econ SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Detabase Source	Top Hit Descriptor
1	16514	28920	1.78	3.3E-01	AL161498.2	L	Arabidopsis thailana DNA chromosome 4, contig fragment No. 10
4015	16548		1.85		AF200446.1	LN	Hypoxyon fragiforme chitin synthase gene, partial cds
	16911		245		D31662.1	Z	Raftus novegicus DNA for regucalcin, partial cds
4738	17252		1.62	3.3E-01	3.3E-01 Al539114.1	EST HUMAN	1978b12x1 NCI_CGAP_UB Homo septens CDNA clone IMAGE:2205407 3' similar to gb:X57522 ANTIGEN PEPTIDE TRANSPORTER 1 (HUMAN):
4896	17407	29779			3.3E-01 D64003.1	NT	Synechocystis sp. PCC6803 complete genome, 22/27, 2755703-2868766
Ш	17935	30287			3.3E-01 AJZ77046.1	N	Mus musculus processed Psma4 pseudogene for a-type of proteasome subunit C9
	18165	30529	2.76	Н	3.3E-01 X89819.1	LN	R.navegicus mRNA for 3 UTR of ublautin-like protein
5577	18165	30530	2.78		X89819.1	IN	R.narvegicus mRNA for 3'UTR of ubiquitin-like protein
	18429	31101	0.76		P39055	SWISSPROT	DYNAMIN
- 1	18429	31102	0.76	1	3.3E-01 P39055	SWISSPROT	DYNAMIN
- 1	18842	31338		- 1	BF213873.1	EST_HUMAN	601848090F1 NIH_MGC_65 Home septens cDNA clone IMAGE:4078823 57
6244	18808	31521	1.63	1	BE619650.1	EST_HUMAN	801472768T1 NIH_MGC_68 Homo sepiens cDNA clone IMAGE:3875753 3'
- [1888 888	31522	1.83		BE619650.1	EST_HUMAN	801472788T1 NIH_MGC_68 Homo septens cDNA clone IMAGE:3875753 3'
- 1	18900	31632		3.3E-01	3.3E-01 P05691	SWISSPROT	CIRCUMSPOROZOITE PROTEIN (CS)
7178	19891	32714		3.3E-01	3.3E-01 AB034233.1	NT	Flexibacter literalis gyrB gene for DNA gyrase B subunit, partial cds
2	19891	32715	0.7	3.3E-01	AB034233.1	NT	Flexbacter litoralis gyrB gene for DNA gyrase B subunit, pertial cds
7294	19799	32609	4.9	3.3E-01 A	AI628131.1	EST HUMAN	ty84h01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA done IMAGE:2285809 3' similar to contains Alurapetitive element of renefitive element.
7294	19799	32610	4.9		AIR28191 1	FOT LIMAN	ty84h01.x1 NCI_CGAP_Kid11 Homo septems cDNA clone IMAGE:2285809 3' similar to contains Alu
	20199	33061			3.3E-01 P32018	SWISSPROT	COLLAGEN ALPHA 1(XIV) CHAIN PRECI IRSOR (I INDI II IN)
	20758	33653	2.01	3.3E-01	3.3E-01 N85146.1	EST HUMAN	J2498F Human (stal heart Lambda ZAP Express Homo senions - DNA chose 12408 R' similar to TECT
	20768	33664	0.53	3.3E-01	AJ231163.1	IN IN	Griccarls paracenthesis mitochondrial 16S rRNA gang partial
9045	21477	34390			3.3E-01 BF683954.1	EST HUMAN	602/403/2F1 NIH MGC 46 Homo saplens cDNA clone IMAGE 430/1800 5'
	22085	35012	1.11	3.3E-01	3.3E-01 BE828461.1	EST HUMAN.	CM3-ET0041-180500-187-d10 ET0041 Homo saplens cDNA
1	22085	35013	1.14	3.3E-01	3.3E-01 BE828461.1	EST HUMAN	CM3-E10041-180500-187-d10 E10041 Homo sapiens cDNA
	22112	35039			N69866.1	EST HUMAN	2897h01.s1 Sogres fetal lung NbHL19W Homo sapiens cDNA clane IMAGE:297649 3'
	22059	34988			3.3E-01 BF376745.1	EST HUMAN	RC4-TN0077-250800-011-004 TN0077 Homo sablens cDNA
10027	22429		1.77		L41044.1	NT	Homo saplens high-mobility group phosphoprotein (HMGI-C) gans, exons 1-3, complete ads
_1	22958	35936	3.17		X63953.1	FX	D.mauritiana Adh gene
1	22956	35937	3.17	3.3E-01	3.3E-01 X63953.1	Ϋ́	D.mauritiana Adh gene
10803	23239		2.51	3.3E-01	BF526499.1	EST_HUMAN	802070802F1 NCI_CGAP_Bm64 Hamo sapiens cDNA clone IMAGE:4213685 6"

Table 4 Single Exon Probes Expressed in Lung

			_			_	_	_								_													
Top Hit Descriptor	hv51g02.x1 NCI_CGAP_Lu24 Hamo saplens cDNA clane INAGE:3176978 3'	GALECTIN-3 (GALACTOSE-SPECIFIC LECTIN 3) (MAC-2 ANTIGEN) (IGE-BINDING PROTEIN) (35 KD LECTIN) (CARBOHYDRATE BINDING PROTEIN 35) (CBP 35) (LAMININ-BINDING PROTEIN) (LECTIN	L-29) (CBP30)	ob71g02.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1336850 3'	Homo saplens eldehyda oxidasa 1 (AOX1), mRNA	Pyrococcus horikoshii OT3 genomic DNA, 287001-544000 nt. position (27)	Rattus norvegicus EH domain binding protein Epsin mRNA, complete cds	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 61	Fusarium poae virus 1 RNA2 putative RNA dependent RNA polymerase nene, complete cita	P. vulgarls arc5-1 gene	LACTOSE PERMEASE (LACTOSE-PROTON SYMPORT) // ACTOSE TRANSPORT PROTEIN)	EST369264 MAGE reseguences. MAGD Homo saplens cDNA	EST369264 MAGE reseguences, MAGD Homo septems cDNA	601868804F1 NIH MGC 17 Home semiens cDNA clane IMAGE-4414842 St	Mus musculus Pbx/knotted 1 homeobox (Pknax1) mRNA	Homo saplens promyelocytic feukemia zinc finner protein (PI 7F) gene complete ode	Human h NAT allee 3-2 gene for any amine N-acelytransferase	Arabidopsis thaliana DNA chromosome 4. contio fragment No. 48	Rabbit beta-like globin gene cluster encoding the epsilon, gemma, delta (pseudogene) end beta globin	Homo conjone lus d'ancterites creteix cons	HYPOTHETICAL 81 7 KD DROTEIN C1907 047 IN CUDANACOURE I DEED 1900	602081972F1 NIH MGC 81 Homo sanlens cDNA clima IMAGE-4248F05 F1	CYTADHERENCE HIGH MOLECULAR WEIGHT PROTEIN 3 (CYTADHERENCE ACCESSORY	AND IEIN 3) (AUCESSURY ADHESIN PROTEIN 3) (PG9)	901465591F1 NIH_MGC_87 Homo saplens cDNA clone IMAGE:3868789 51	CM0-HT0569-060300-289-f10 HT0569 Homo saplens cDNA	Glardia intestinalis pyruvate: flavodoxin oxidoreductase and flanking genes	601297331F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3827462 6	601297331F1 NIH_MGC_19 Homo sepiens cDNA clone IMAGE:3627462 5
Top Hit Database Source	EST HUMAN			EST_HUMAN	NT.	FN	Į.	K	N _T	N	SWISSPROT	EST HUMAN	EST HUMAN	EST HUMAN	NT	Į.	N.	L	I I	L L	SWISSPROT	EST HUMAN	Foodoonia	SWISSPRO!	ESI HUMAN	EST HUMAN	NT	EST_HUMAN	EST HUMAN
Top Hit Acession No.	BE219351.1		-47953	AA806621.1	6598319 NT	AP000002.1	AF018261.1	AL161561.2	AF047013.1	250202.1	248624	3.2E-01 AW957194.1	3.2E-01 AW957194.1	3F203817.1	T/10078	4F060568.1	J10872.1	3.2E-01 AL161546.2	3.2E-01 M18818 1	AF414167 2	210268	3.2E-01 BF693617.1	757004	3.2E-01 (37,001	15/02/40.1	3.2E-01 BE173984.1	27221.1	3.2E-01 BE383518.1	3.2E-01 BE383518.1
Most Similar (Top) Hit BLAST E Value	3.3E-01	70 20 0	3.35-01	3.35-01	3.3E-01	3.3E-01	3.2E-01	3.2E-01	3.2E-01	3.2E-01	3.2E-01	3.2E-01	3.2E-01	3.2E-01 B	3.2E-01	3.2E-01	3.2E-01 D10872.1	3.2E-01	3.2E-01	3.2F-01.A	3.2E-01 010268	3.25-01	2 20 50	3.2E-01	3.4E-01	3.25-01	3.2E-01 L27221.1	3.2E-01	3.2E-01
Expression	5.60	0	85.C	2.88	1.65	12.58	2.34	1.38	25.28	1.75	11.38	4.07	4.07	8.18	1.64	1.52	0.77	0.98	1.53	0.72	1.12	7.59	000	0.00	0.0	7.89	1.39	0.59	0.59
ORF SEQ ID NO:	36446		20090		36555				26176	26301				27102		27664			28329	29408	29437		20827	20000	30470	2/4/0	31535	31845	31846
Exan SEQ ID NO:	23428	72857	10007	23800	23984	24474	13048	13299			13955	14292		14584	14953	15152	16142	16498	16938	17027	17054	17301	17451	17637	18113	2 2 2	18820	70161	19102
Probe SEQ ID NO:	10999	1107	3		11872	12447	474	738	1192	1315	1422	1765	1765	2069	2452	2659	3802	3983	4417	4509	4536	4787	4940	6132	25.23	2000	0220	0000	0000

Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Dafabase Source	Top Hit Descriptor
19180	31632	9.0	3.2E-01	AF016494.1	Ŋ	Fugu rubripes gamma-aminobutyric acid receptor beta subunit gene, partial cds; 55kd erythrocyte membrane protein (P55), synaptic vesicle-associated integral membrane protein (VAMP-1), procollagen C-proteinase enhancer protein (PCOLCE) genes, complete c>
19488	32268	0.72	3.2E-01		EST_HUMAN	AV718037 FHTA Homo saplens cDNA clone FHTAABH01 6'
19845	2	1.31	3.2E-01	AB002359.1	NT	Human mRNA for KIAA0381 gene, KIAA0361 protein
21190	34092	1.41	3.2E-01	M60266.1	NT	Ret ISO-atrial natriuretic factor gene, complete cds
8905 21339	34253	16.13	3.2E-01		LΝ	H. sapiens gene fragment for acetylcholine receptor (AChR) alpha subunit exons 8, 9 and 3' flanking region
		16.01	3.2E-01	BF311635.1	EST_HUMAN	601897107F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126633 5'
8974 21407		1,57	3.2至-01	AL161574.2	TN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 70
		1.1	3.2E-01	BF246771.1	EST_HUMAN	601855580F1 NIH_MGC_57 Homo saplens cDNA clone IMAGE:4075627 5'
		1.1	3.2E-01	BF246771.1	EST_HUMAN	601855580F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4076627 5'
9052 21484	34395	1.61	3.2E-01	AE002015.1		Delnococcus radiodurans R1 section 152 of 229 of the complete chromosome 1
9117 21549	34463	78.0	3.2E-01	U51026.1	TN	Oryctolagus cuniculus Ig H-chain pseudogene, V-region (VH6-a2) gene, partial cds
9117 21549	34454	78.0.	3.2E-01	U51028.1	NT	Oryctolagus cuniculus Ig H-chain pseudogene, V-region (VH8-a2) gene, partial cds
9393 21825		2.86		M86511.1	TN	Human monocyte antigen CD14 (CD14) mRNA, complete cds
22431	1 35377	4.03		U44914.1	NT	Borrella burgdorferi plasmid cp32-2, erpC and erpD genes, complete cds; and unknown genes
22648		3.85	3.2E-01	AB011399.1	TN	Homo saplens gene for AF-6, complete cds
	1 35891	6.01		T06813.1	EST_HUMAN	EST04702 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBDZ21
	3	2.38	3.2E-01	L07288.1	IN	Drosophila melanogaster laminin A (Lam-A) mRNA, complete cds
		1.35		BE886846.1	EST_HUMAN	601507820F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909532 5'
- 1	6	3.84		083217	SWISSPROT	ELONGATION FACTOR TU (EF-TU)
	3	1.48	3.2E-01	AF157625.1	IN	Bos taurus inositol 1,4,5-trisphosphate receptor type I mRNA, complete cds
		2.04	3.2E-01	L39874.1	, LN	Homo sapiens deoxycytidykata deaminasa gane, complete cds
12493 24912	30464	1.43	3.2E-01	BE385776.1	EST_HUMAN	601275480F1 NIH_MGC_20 Hamo sapiens cDNA clone IMAGE:3616746 5
						ye90h06.r1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:125051 5 similar to
П	Ì		3.1E-01	R18051.1	EST_HUMAN	gb:M64241 QM PROTEIN (HUMAN);
2646 15272			3.1E-01	7681971 NT	IN	Homo sapiens KIAA0174 gene product (KIAA0174), mRNA
- 1	2 27650	8.31	3.1E-01	1N 1261997	NT	Homo saplens KIAA0174 gene product (KIAA0174), mRNA
	6	1.27	3.1E-01	AW629036.1	EST_HUMAN	hi46h08x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975391 3'
	5	3.27	3.1E-01	AB029069.1	TN	Mus musculus gene for Ser/Thr kinase KKIAMRE, exon 6
			3.1E-01	AJ261586.1	TN	Daucus carota mRNA for transcription factor E2F (E2F gene)
				S68245.1	NT	carbonic anhydrase IV [rats, Sprague-Dawley, lung, mRNA, 1205 nt]
5053 17563	3 29931	0.85	3.1E-01	AE003984.1	NT	Xylelia fastidiosa, section 130 of 229 of the complete genome

	Top Hit Descriptor	iment No. 15		F3A) gena, exon 1)L141w		gh 22	piens cDNA clone IMAGE:198367 5'	ins cDNA	lone IMAGE:1874689 3'	variable region A8 and A9	ns cDNA	lone IMAGE:3640420 5'	Ą	Mus musculus neuronal apoptosis inhibitory protein 6 (Naip6) gene, complete cds; and Naip3 gene, exons 2-9 and 11-16	SCDNA	ScDNA	3DNA clone IMAGE:35639.31	lone IMAGE:4281611 5	lone IMAGE:4281611 5	qi81e11.x1 NCI_CGAP_Kid3 Homo saplens cDNA clone IMAGE:1883980 3' similar to gb:S65700 HYDROXYMETHYLGLUTARYL-COA LYASE PRECURSOR (HUMAN);	Mus musculus chromosome X contigA; putative Magéa9 gene, Caltractin, NAD(P) steroid dehydrogenase	V I G	MKWA	Anoits opalinus isciate QS NADH dehydrogenase subunit 2 (ND2) gene, complete cds; mitochandrial gene for mitochondrial product	A partial cds	XNPEP2) gene, complete cds	Homo sapiens transcription factor IGHIM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein,	JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete ods; and L-type calcium channel e>	
Olligie Exoli riones Expressed III Lulig		Arabidopsis thaliana DNA chromosome 4, contig fragment No. 15	S.pombe chromosome I p1 p8A3	Homo saplens hepatocyte nuclear factor-3 alpha (HNF3A) gene, exon 1	HYPOTHETICAL PROTEIN HI1236	S.cerevisiae chromosome XV reading frame ORF YOL141w	Mus musculus mRNA for polycystin	Homo sapiens filamin 2 (FLN2) gene, exons 10 through 22	yq41f04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:198367 5	RC3-HN0001-310300-011-b04 HN0001 Homo septens cDNA	qi39d01.x1 NCI_CGAP_Co8 Homo sapiens cDNA clone IMAGE:1874689 3'	H. sepiens gene for immunoglobulin kappa light chein variable region A8 and A9	MR2-CT0222-281099-005-h05 CT0222 Homo saplens cDNA	601308121F1 NIH MGC 39 Hamo saplens cDNA clone IMAGE:3640420 5	Homo sapiens hyaluronan synthase 2 (HAS2), mRNA	Mus musculus neuronal apoptosis inhibitory pand 11-16	IL3-CT0219-271099-022-E03 CT0219 Homo sepiens cDNA	IL3-CT0219-271099-022-E03 CT0219 Homo septens cDNA	yg46f01.s1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:35639.3	602124743F1 NIH MGC 56 Homo sapiens cDNA clone IMAGE:4281611 6	602124743F1 NIH_MGC_56 Hamo saplens cDNA clone IMAGE:4281611 5	qi81e11.x1 NCI_CGAP_Kid3 Homo septens cDNA clone IMAGE:1863988 HYDROXYMETHYLGLUTARY1COA LYASE PRECURSOR (HUMAN);	Mus musculus chromosome X contigA; putat	and Zinc Tinger protein 183	notice squares nursely of gene product (NIAAV 64), mistra	Anoils opalinus isolate QS NADH dehydroger for mitochondrial product	Stizostedion vitreum 40S ribosomal protein S11 mRNA partial cds	Homo sapiens membrane-bound aminopeptidase P (XNIPEP2) gene, complete cds	Homo sapiens transcription factor IGHM enh.	JM10 protein, A4 differentiation-dependent pr complete cds; and L-type calcium channel a>	36
ום דעמון גונ	Top Hit Defabase Source	N	L	NT	SWISSPROT	N.	N FN	LN PA	EST_HUMAN	EST_HUMAN	EST_HUMAN	N	EST HUMAN	EST HUMAN	FN	IN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	<u> </u>			¥	Į.	NT		·	
310	Top Hit Acession No.	AL161503.2	AL117210.1	AF176111.1		Z74883.1	Y13278.1	AF184122.1	R94322.1	AW983549.1	Al264458.1	X71887.1	AW377354.1	BE737392.1	4885390 NT	AF242431.1	AW850168.1	Γ	Γ	Į.	BF696639.1	AI244001.1		7662204 NT	10000	AF294308.1	AF304162.1			AF196779.1	
	Most Similar (Top) Hit BLAST E Value	3.1E-01/	3.1E-01	3.1E-01	_	3.1E-01	_	_	3.1E-01	3.1E-01	3.1E-01	3.1E-01	3.1E-01	3.1E-01	3.1E-01	3.1E-01		_	_	_	3.1E-01	3.1E-01	0 10 10	`_	20.15	3.1E-01	3.1E-01/	3.1E-01		3.1E-01	
	Expression Signal	1.04	96.0	10.61	9.0	6.0	-	2.55	0.57	1.26	86.0	0.66	8.0	2.72	0.68	0.63	0.57	0.57	1.2	0.92	0.92	1.47	a	3.35		1.23	1.78	2.81		4.14	
	ORF SEQ ID NO:	<i>1</i> Z00E	30182	30765	31121	31122		31314	31909	32127	32198	32381		30393	33527	33626		33812	34442		35446	36505	36147	36702							
	Exan SEQ ID NO:	17665	17821	18320	18446	18447		18624		. 19352	19424		19860	ŀ	20637	20732	20916	20916	21533	22488	22488	22637	23163			24094	24119	24205			
	Probe SEQ ID NO:	5161	6321	5738	2887	. 5868	5879	6052	6099	6811	6884	7052	7147	7385	8217	8317	8504	8504	9101	10087	10087	10136	10725	11201		11844	11883	12033		12432	

Table 4
Single Exon Probes Expressed in Lung

г		_	_	_	_	-	_	_	_		_	_	_	-	_	_	_	-	~	_	_	_	_	-,-		-		_							
	Top Hit Descriptor	Mus musculus protein kinase C, epsilon (Pkce), mRNA	Homo saplens Xq pseudoautosomal region; segment 1/2	xs63f08.x1 NCI CGAP Kid11 Home sablens cDNA clone IMAGE:2774343.31	Balaenoptara physalus gene encoding atrial natriuretic peptide	Listeria monocytogenes spl gene for secreted protein P45	Bos taurus mRNA for UDP-glucuronosyltransferase, complete cds	S. pombe plc1 gene	Connebacterium sp. ALY-1 alyPG gene for polyguluronate lyase, complete cds	PM1-ST0262-261189-001-001 ST0262 Homo sepiens cDNA	Bakaenoptera physalus gene encoding atrial natriuretic pentide	Becteriophage APSE-1, complete genome	GATA BINDING FACTOR 3 (TRANSCRIPTION FACTOR NE-F1C) (GATA-3)	601594960F1 NIH MGC 9 Harno sapiens cDNA clane IMAGE:3948724 5	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquith-conjugating enzyme E2D 3	(UBE2D3) genes, complete eds	Centagalo orthopoxvirus hemagglutinin gene, complete cds	RC3-BT0333-180700-111-a03 BT0333 Homo sapiens cDNA	RC3-BT0333-180700-111-e03 BT0333 Homo sepiens cDNA	Mus musculus 129/sv Clara cell 10 kd protein (mCC10) gene, complete cds	Mouse cytokeratin 15 gene, complete cds	Strongylocentrotus purpuratus 34/67 kDa laminin-binding protein mRNA, partial cds	Cantagalo orthopoxvirus hemagglutinin gene, complete cds	S Cerevisiae GAC1	Homo sapians chromosome 21 segment HS21C006	Mus musculus midnolin (Midn-pending), mRNA	Streptococcus pneumoniae strain DBL5 PspA (bspA) gene, partial cds	Thermotoga maritima section 67 of 138 of the complete genome	Mus musculus C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9	(Clecsf9), mRNA	601339079F1 NIH_MGC_53 Homo sapiens cDNA done IMAGE:3681594 5	Anabaena PCC7120 cytosine-specific DNA methyltransferase (drnnB) gene, complete cds; putative	anniraniiate phosphonibosyltransferase gene, partai cds; and unknown gene	Asher gillus oryzae topat gene for Erk chapterone BIP, complete cas	yp84b10,r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:194107 5'
	Top Hit Database Source	NT	LN T	EST HUMAN	LN	NT	TN.	L	IN	EST HUMAN	LZ	LZ.	SWISSPROT	EST HUMAN		LN	NT	EST_HUMAN	EST_HUMAN	LN LN	LN LN	N.	LN L	NT	MT	N	IN	ZI.		NT	EST_HUMAN	<u>F</u>	-		EST HUMAN
	Top Hit Acession No.	F755083,NT	AJ271735.1	AW300400.1	AJ006755.1	AJ250194.1	AB008677.1	X83615.1	AB030481.1	AW817785.1	AJ006755.1	AF157835.1	P23825	BE741629.1		AF224669.1		BE693575.1	BE693575.1	J01247.1	016313.1	J02369,1	4F229247.1	X63941.1	4L163206.2	10947007 NT	4F071810.1	AE001755.1		9910161 NT	3E566083.1	NE000507 4			151029.1
	Most Similar (Top) Hit BLAST E Value	3.0E-01	3.0E-01	3.05-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01		3.0E-01		3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01		3.0E-01	3.0E-01	, OH. O.	3.0E-01/	1000	3.05-01
	Expression Signal	1.9	12.35	2.58	4.73	5.69	0.64	1.1	1.38	1.41	2.18	1,05	0.69	5.3	0	0.69	0.88	4.77	4.77	4.72	3.34	0.71	F	0.59	0.69	2.32	1.65	1.32		4.28	2.64	70 0	233	200	7:25
	ORF SEQ ID NO:			26240	26527					28811	29449			30560	10000	30084	30699	30803	30804	31045			32550	32767	32853	33094	33307	33916		1	34329	34846	35666	26004	TIMADO
	Exon SEQ ID NO:	15252	12865	13794	14067	14948	15517	15714	16723	16407	17067	17293	15919	18195	10072	107/3	18277	34	18347	18384	19836	18034	19747	19925	8	20234	20439	21016	1	21345	21416	21921	22701	22827	12001
	Probe SEQ ID NO:	75	267	1256	1535	2447	2962	3161	3170	3871	4550	4779	5325	2607	000	9	2695	2,66	2766	5804	7224	7260	7335	7420	7560	7,82	808	8581	7	<u> </u>	8983	9490	10301	11478	7

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Top Hit Descriptor	V084b10.11 Sources feital liver spiegon 1NFI S Homo contains PNA arlows IMA OF HOUSE	Raftus novaericus mRNA for chaeracheles of a chaeracheles de capacita de la constante de la co	Mus musculus rihose 5-ohosnhafe teomense A (Pale) mDNA	Adulfex applicits section 68 of 100 of the complete government	Mouse and income in A-11 (Ath-2) dans complete gending	Xenous leavis transcription factor FOF mRNA complete cds	PM1-CT0326-171299-001-172 CT0328 Homo saniens cDNA	PM1-CT0328-171299-001-f12 CT0328 Homo septems cDNA	tp21e11.x1 NCI_CGAP_Gas4 Homo saplens cDNA clone IMAGE:2188412 3' similar to gb:D16050 NIL-2-AZNC FINGER PROTEIN (HI IMAN) contains clones 1.4 contains	wr02f0xt NCI CGAP GC8 Homo seniens chNA close MAGE Agoste 2	2857d12.r1 NG_CGAP_GCB1 Homo septens cDNA clone IMAGE:701591 5 similar to contains Alu	Home contains chromosome 24 comment 11000 Oct	Mis misculis dans complete of a series of the	we0603.x1 NCI_CGAP_Kid11 Home sepiens cDNA done IMAGE:2297309 3' similar to contains L1.t2 L1	repetitive element;	Mus musculus gene, complete cds. similar to EXLM1	477e12.s1 Scares Infant brain 1NIB Homo caniens clave International series	Suaeda martitma subsp. salsa S-adenosymethionine sytherars 2 mRNA complete 24.	B. subtilis levanase operon levD, levE, levF, levG and sacC (partial) genes for fructose phosphotransferase system polyperides P18 18 28 30 and levenage	B subtilis levanase operon levO, levE, levF, levF, levG and sacC (partial) genes for fructose phosphotransferase	system polypeptides P16,18,28,30 and levanase	mus muscuns Epi receptor Ad (Ephad), mKNA	Aver 0.12.11 Scenes Turtinizur, S.1 Homo septens cDNA clone IMAGE:767711 6' We27c05.41 NCI_CGAP_Lu24 Homo septens cDNA clone IMAGE:2342312 3' similar to contains L1.11 L1	re-curve denient	bos taurus myosin i mRNA, complete cds	y39d08.11 Scares placenta Nb2HP Homo saplens cDNA olone IMAGE:141615 5'	y/39d08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:141615 5	D. discoldeum gene for 34 kD actin binding protein	Suaeda maritima subsp. salsa S-adenosylmethlonine sythetase 2 mRNA, complete cds	Mus musculus Filih protein (Filih) gene, complete cds, and Lighh protein (Ligh) gene, partial cds
Top Hit Database Source	EST HUMAN	NT	Į.	NT.	LN LN	LN LN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	FST HIMAN	TN.	Į		EST_HUMAN	L	EST HUMAN	N	L L	114	L	T LI MANNI	7-	FIGURE FIG	Т	Т	HUMAN			Z
Top Hit Acession No.	H51029.1	AJ297631.1	•	AE00073	2	14	IΦ	2.9E-01 AW754239.1	2.9E-01 AIG10836.1	-		T.	2.9E-01 AB019029 1				2.9E-01 R37485.1		2.9E-01 X56098.1		0662	2 OF 01 AA418448 4		03420.4		Z.BC-01 AGB184.1	1	0156.1	3Z1001.1	142329.1
Most Similar (Top) Hit BLAST E Value	3.0E-01	3.0E-01	3.0E-01	2.8E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	0000	Z85-01 A	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2 OF D4	29F.04	2 QF-01	2 BF-04	2 OF 04	2000	2.85-01	Z.8E-01	2.9E-01 250156.1	2.3C-01 AF	Z-28-7 1 /
Expression Signal	2.92	2.04	4.58	1.18	2.08	1:1	2.78	2.76	0.93	0.88	0.99	9.0	0.64	1 2	77	9.0	1.93	0.82	5.8	α u	6.71	1.55	86.0	96	200	9	0.40	0.5	3	17
ORF SEQ ID NO:	36902			26984			28182	28183	28847		29417		29775			29775		32575	31305	31308	31321	31655	31904	31954	32114	22445	21.75	32578	30386	1
Exan SEQ ID NO:	23834	24852	24902	14477	14888	15894	15763	16763	16441	16632	17039	17247	17404	27777		1,404	18099	19767	18617	18617	18829	18920	19156	19203	19343	10343	10830	19767	18073	
Probe SEQ ID NO:	11476	12155	12471	1959	2384	3141	3211	3211	3906	4101	4621	4731	4892	5271		ğ	8	5851	6044	8044 440	2909	6362	6605	6655	9800	88	Z	7282	7404	

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	Top Hit Descriptor	PUTATIVE MULTICOPPER OXIDASE YDR606C	Mus musculus major histocompetibility locus class II region; Fas-binding protein Daox (DAXX) gene, partial ods; Bing1 (BING1), tapesin (tapesin, RaiGDS-tike factor (RLF), KE2 (KE2), BING4 (BING4), beta1, 3-	Survivory unionated (John Jaylanacius) us and a land to the survivory of t	601065830F1 NIH MGC 10 Homo septems contact characters as	601882570F1 NIH MGC 57 Homo conlane CONA Almo IMAGE (100544) E1	AU160910 NT2RP2 Home septems cDNA close NT2RP2001323	Pyrococcus abyasi complete genome: segment 5/8	Pyrococcus abyssi complete genome: segment 6/6	Trognosoma cruzi stade-specific surface obsocrabin and 2 (mg2) mBNA medial mis	Topedo californica mRNA encoring aceanda group of the capacity	Torbedo californica mRNA encoding acetylcholina recentor germane entrumite	Campylobacter lellun NCTC/1168 commisses and a second seco	Rettus horvedicus activin recentrulita kinasa 7 (A1 K7) mRNA Amminisa ada	Rettus nerveoleus activin recentre-like kinese 7 (ALK7) mBNA complete de	wz8605.x1 NCI_CGAP_Brnz5 Homo saplens cDNA clone IMAGE.2565921 3' similar to contains element	IMENZY repeative element	nano sapiens Tivit-a-inducible KNA binding protein (TIRP) gene, complete cds	Chlamylomore minhortii — DNA (c. 114)	Chamming a sinhardii mBNA for mittin contrass surceins	Rattus havedicus A-kinase enchoring mately AKAP450 mBNA	Prune dwarf virus movement protein complete cds: cost ambain complete cds	Guira guira cocyte maturation factor Mos (c-mos) cene, partial cds.	601148733F1 NIH MGC 19 Homo septems cDNA clone IMACE: 3163888 Ft	601148733F1 NIH MGC 19 Homo sepiens cDNA clone IMAGE 3163688 R	Human mRNA for serinathreonina profein kinasa commista ode	QV1-CT0364-120200-065-b05 CT0364 Home seniens cDNA	DKFZp58812321 r1 588 (swonym hulbs) Home seniens cDNA done DKEZ-Epsis224	Escherichia coli K-12 MG1655 section 384 at 400 of the complete converse	Escharchia coll K-12 MG1655 section 384 of 400 of the complete genome	Arabidosais thaliana DNA chomosome 4. confin francent No. 85	Arabidopsis traitana mRNA for lipolytransferasa, complete cds
	Top Hit Database Source	SWISSPROT	. F	FST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	LN LN	N.	F	Ł	Ę	LN.	Į.	Į.		EST HOMAIN	ENT LIMAN	NT	LN	NT	NT	NT	EST HUMAN	EST HUMAN	TN	EST HUMAN	EST HUMAN	NT	LN L	LN.	NT
	Top Hit Acession No.	Q04399	AF100858 1	BE540422 1	BE540422.1			AJ248287.1	AJ248287.1	AF128843.1	V01394.1	V01394.1	AL139078.2	U35025.1	U35025.1	AMOGEOTA	ATTOOMES 4		708937.1	708937.1	U67136.1	28145.1	4F168050.1	3E313442.1	2.8E-01 BE313442.1	2.8E-01 D86550.1	2.8E-01 AW860020.1	2.8E-01 AL047620.1			Γ	
	Most Similar (Top) Hit BLAST E Value	2.9E-01	2.95-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2000	2000	29E-04	2.9E-01	29E-01	2.8E-01	2.8E-01	2.8E-01 AF	2.8E-01 B	2.8E-01	2.8E-01	2.8E-01	2.8E-01	2.8E-01	2.8E-01	2.8E-01	2.8E-01
	Expression Signal	3.44	Q.	1.73	1.73	1.01	0.88	1.28	1.28	2.17	17.94	17.94	4.24	2.05	2.05	7 7	3.28	1.26	1.47	1.47	1.62	0.92	3.09	1.1	1.1	1.35	1.13	0.94	4.78	4.78	1.51	3.56
	ORF SEQ ID NO:	32820	32900		L		34408	34894			36381			36770	36771	30808	L	L	20867	ı										27393		27613
	Exan SEQ ID NO:	19985	20050	21010	21010	21181	21497	21972	21972	,		23372	23697	23713	23713	24248	24313	24349	24522	24522	13156	13160	13654	13845	13845	13858	14252	14470	14872	14872	14960	15098
	Probe SEQ ID NO:	7535	7601	8576	8575	8747	9906	9509	9509	10676	10940	10940	11333	11349	11349	12099	12194	12248	12625	12525	685	8	±	1330	를 달	1323	1724	1951	2367	2367	2458	2602

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
2924	Lŀ		1.43	2.8E-01	AF179480.1	NT L	Toxoplasma gondii 90kDa heat-shock conteth (HSPan) mRNA martiel cata
2926	- 1	27902	2.3	2.8E-01		<u>N</u>	B. taurus microsatellite (ETH121)
2925	- 1	27903	2.3	2.8E-01	214037.1	N	B. faurus microsate Ilite (ETH121)
3356	- 1	28322	1.07	2.8E-01	AP000004.1	N	Pyrococcus horikoshii 073 nenomin DNA 772004 obdono at sasilia- (472)
\$ 5	16543	28940	1.79	2.8E-01	AE001180.1	L'N	Borrella burgdorferi (section 86 of 70) of the complete generals
4214	16739	_	1.81	2.8E-01	A1090868.1	EST HUMAN	ow4g10.xt Soares_tests_NHT Hono sapiens cDNA clone IMAGE:1640226.3' similar to contains Atu repetitive element contains element MFR22 remaiting element.
4485		29390	-	2.8E-01	AL021127.2	Į	Mus musculus chromosome X contigA; putative Magea9 gene, Celtractin, NAD(P) steroid dehydrogenase
4492		20395	2.23	2.8E-01	-	SWISSPROT	RIVA POLYMERASE BETA SUBJUIT (1 APCE STRUCTURAL PROSTERIO).
4835	$_{\perp}$	29730	1.48	2.8E-01	D15050.1	- LN	Human mRNA for transcription factor ARERA complete See
4835		29731	1.46	2.8E-01	D15050.1	Z	Human mRNA for transcription factor ABEBS association
4885	١	29768	3.11	2.8E-01	AF030154.1	N.	Boyine adenovirus 3 complete genome
4919	17430	29803	1.38	2.8E-01	BF528188.1	L HUMAN	602042601F1 NCI CGAP Bm67 Home seniers citing circa IIM CE 44 godge et
4949	17460	29836	3.87	2.8E-01	ı «T	Г	4159c11.x1 Scares_NhHMPU_ST Home septens cDNA clone IMAGE:1876628 3' similar to contains Alu receitifue element-contains along the contains along
5411	17907		1.48	2.8E-01	60150.1	Т	ORFI ORFI (3' terminal raison) Chammattering de Color
5564		30514	26.39	2.8E-01	7	T HUMAN	EST57072 Infant hain Home contens of NA E and
5873		31127	80.15	2.8E-01			Homo seniens OCTN2 gene complete ada
6101			0.79	2.8E-01		T HUMAN	CM/1-BN0024-150200-118-012 BN0024 Home serviors - CN/1
6216	18782	31487	0.79	2.8E-01	2.8E-01 AA765296.1		oe01d06.s1 NCI_CGAP_GCB1 Homo seplens cDNA clone (MAGE:1303691 3' similar to gb:M34539 FK608-BINDING PROTEIN (HUMAN):
6236	18800		0.69	2.8E-01	2.8E-01 AA404576.1	T T	241f01.r1 Scares overy tumor NbHOT Homo sepiens cDNA clone IMAGE:724921 5' similar to contains Alu
6480			0.83	2.8E-01	T	Т	Bovine 680 bo reneated unit of 1 723 satalitie DNA
6535	- 1	31828	1.54	2.8E-01	Γ		Mesembranthania cretalina frictora pasa aldia and an anala
6535	- [31829	1.64	2.8E-01	Γ		Mesembranthemum constallinim frances histocastal and a second of the sec
74.10	19843	32430	8.78	2.8E-01	2.8E-01 BF511215.1	T_HUMAN	UI-H-BI4-aci-f-04-0-UI-s1 NCI CGAP Sub8 Homo segiens cDNA clone IMA GF-308542-2
7426	19931	32763	0.63	2.8E-01 U65300 1		1	Orthogeamys heterodus cytochrame b (cytb) gene, mitochondrial gene encoding mitochondrial protein,
7826	20267	33128	0.44	2.BE-01	-	L HI IMAN	S01490157F1 NIH MOC 60 Domo company DNA
7926	20363		1.02	2.8E-01 U05633.1		1	Marsilea quadrifola ribulose-1,5 lishbosphate carboxylase/oxygenese large subunit (rbcL) gene, chloroplast
7983	20418	33285	0.43	2.8E-01 X89980.1			years of iccompless protein, partial cas Lesculentum vot2 mRNA for GTP-kinding models
							umod funding to the little of the state of t

							D.
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8383	20807	33706	0.44		2.8E-01 BE537151.1	EST HUMAN	601063105F1 NIH, MGC 10 Homo sapiens cDNA clone IMAGE:3449589 5
8697	21132	34033	1.46	2.8E-01 A	Al346126.1	EST_HUMAN	qp48h01.x1 NCI_CGAP_Co8 Homo saplens cDNA clone (MAGE:1926289.3' similar to gb:X06323_cds1 MITOCHONDRIAL 60S RIBOSOMAL PROTEIN L3 (HUMAN):
8697	21132		1.46	2.8E-01 A	346126.1	EST HUMAN	qp48h01x1 NCI_CGAP_C08 Homo sapiens cDNA clone IMAGE:1926289 3' similer to gb:X06323_cds1
8784	21218	34123	2.31	2.8E-01	51688.1	L L	Homo saplens lanosterol 14-alpha demethylasa cutochroma DASO (CVDRA) come
9061			8.31	2.8E-01	2.8E-01 BF347847.1	EST HUMAN	602022987F1 NC CGAP Brn67 Homo septems cDNA clone IMA GE-445859 FF
8996		34945	1.17		2.8E-01 U17251.1	NT	Neurospora crassa negative requistor suffur controller-2 (scoru-2) gene complete cde
9844	- 1		0.98	2.8E-01 L1	3654.1	NT	Lycoperation esculentum percyddase (TPX1) mRNA, complete cyla
9981	ı	35313	1.02			NT	Escherichia coli translocated intimin receptor Tir (tir) gene, complete cus
19861	_ !	35314	1.02		AF132728.1	NT	Escherichia coli translocated infilmin receptor Tir (fir) gene, complete cds
10084	[35442	3.35	2.8E-01	7706163 NT	F	Homo saplens hypothetical protein (LOC51319) mRNA
10248			0.94	2.8E-01	9626154 NT	TN	Fujinami sarcoma virus, completa ganoma
10527	_1	35954	3.27	28E-01	BF241062.1	EST HUMAN	801880794F1 NIH MGC 55 Homo sapiens cDNA clone IMAGE 4400350 F
10527	I	36965	3.27	28E-01 BI	241062.1	EST HUMAN	801880794F1 NIH MGC 55 Home sepiens CDNA clone IMAGE 4100350 5
10555	_1	35987	3.42		-695970.1	EST_HUMAN	601652148F1 NIH MGC 56 Homo saplens cDNA clone IMAGE:4076026 5
11048	_[4.44	2.8E-01 BI	BF674023.1	EST HUMAN	602137418F1 NIH MGC 83 Home sapiens cDNA clone IMAGE 4272853 8
12143	24274		11.72	2.8E-01		IN	Mus musculus DNA for prostagilandin D2 swithage complete cde
12261	24358	30802	4.83	2.8E-01	2.8E-01 BE178699.1	EST HUMAN	PM4-HT0606-030400-001-607 HT0606 Home seniers cDNA
12458			2.32	2.8E-01	11433629 NT	LZ	Homo sapiens CDC42-binding protein kinasa hata (DMPK litra) (CDC42BDB)DNA
12605			1.46	2.8E-01	0.1	EST HUMAN	wu98g05.x1 NCI CGAP Kid3 Home sabiens cDNA close IMA CECSETOR ST
\$	13087	25486	3.48	2.7E-01	2.7E-01 Y17324.1	N	Rattus norvegicus CDK104 mRNA
632	13198	25602	4.29	2.7E-01		EST HUMAN	239b/0.s1 Soares_tota_fetus_Nb2HF8_9w Home sapiens cDNA clone IMAGE:788827 3' similar to contains Aur emetitive element
1294	13829	26278	1.78	2.7E-01	2.7E-01 AB004908.1	LZ	bombes burbures transnosable element Thrifth gone for francescope.
1632	14164		1.68	2.7E-01	Γ	N.	Glambla SR2 dene
1726	14254	26738	2.47	2.7E-01	2.7E-01 W58067.1	EST_HUMAN	zd22h10.r1 Soares fetal heart NbHH19W Home saplens cDNA clone IMAGRE-341443 K
1759	14286	26769	0.98	2.7E-01 P03341		SWISSPROT	GAG POLYPROTEIN (CONTAINS: INNER COAT PROTEIN P12; CORE PROTEIN P15; CORE SHELL PROTEIN P30; NI ICL EODDOTEIN BAN
2052	15327		2.08	2.7E-01	T	Z	Reffus noviedicus vasicular moncamine franconder timo 2 promotor included
2262	14770	27289	4.88	2.7E-01	2.7E-01 Y13868.1	NT	Feline Immunodeficiency Virus envicene isolate ITTO088PILI (M88), narial
2353	14858	27378	2.6			EST HUMAN	ta43c11.x2 NCI_CGAP_Lu25 Homo saplens cDNA clone IMAGE:2046838 3' similar to contains elament L1 repetitive element:
2939	15494		0.69	}	2.7E-01 BF088284.1	1	OM1-HT0875-060900-385-e05 HT0875 Homo saniens c/INA
						ı	

Top Hit Database Top Hit Descriptor Source	Rattus norvegicus Insulin receptor (Insr.), mRNA	wc92e11.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2462828 3'	Drosophila buzzatii apha-esterase 6 (aE6) gene, partial cds	Drosophila buzzati apha-esterase 6 (aE6) gene, partial cds	Homo sapiens DiGeorge syndrome critical region, telomeric end	Tritteum aestivum (Wcs88) gene, complete cds	RC1-C70286-230200-016-603 C70286 Homo septens oDNA	AV781450 MDS Hano saplens cDNA clone MDSBZA02 5'	HOMEOBOX PROTEIN HOX-44 (CHOX-1.4)	Astroopora myriophthalma mitochondrial cyto gene for cytochrome b, partial cds	LATENT TRANSFORMING GROWTH FACTOR BETA BINDING PROTEIN 1 PRECURSOR	(TRANSFORMING GROW TH FACTOR BETA-1 BINDING PROTEIN 1) (TGF-BETA1-BP-1) (TRANSFORMING GROWTH FACTOR BETA-1 MASKING PROTEIN, LARGE SUBUNIT)	LATENT TRANSFORMING GROWTH FACTOR BETA BINDING PROTEIN 1 PRECURSOR	(TRANSFORMING GROWTH FACTOR BETA-1 BINDING PROTEIN 1) (TGF-BETA1-BP-1) (TRANSFORMING GROWTH FACTOR BETA-1 MASKING PROTFIN I ARGE SLIRINIT)	Archaeoglobus fulgidus section 13 of 172 of the complete neurome	Archaeoglobus fulgidus section 13 of 172 of the complete genome	FIBRILLIN 1 PRECURSOR	Drosophila melanogaster rfc40 protein, Rop protein (Rop), and small GTP binding protein (DRas2) genes, complete cds.	td08h08x1 NCI CGAP CLL1 Homo saplens cDNA clone IMAGE:2075103 31	HYPOTHETICAL 20.9 KD PROTEIN B0563.3 IN CHROMOSOME X	NITROGEN REGULATORY PROTEIN NUT1	NITROGEN REGULATORY PROTEIN NUT1	Bos taurus micromolar calcium activated neutral protease 1 (CAPN1) nene amms 11-20 and neutral cde	Bos faurus micromolar calcium activated neutral prohases 4 (CADNA) none aware 14.20 and hadish ode	EST58740 Infant brain Homo septens cDNA 51 and similar to similar to move in hinding persent	EST58740 Infant brain Homo saplens cDNA 5' end similar to similar to myosin-binding moteln H	Oryctolagus cuniculus UDP-glucuronosyltransferase (UGT2B13) mRNA, complete cds	ze35b11.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360957 3' similar to contains Alu rèpetitive element;
Top Hit Database Source		EST_HUMAN W	LN LN	NT D	I		EST HUMAN R	EST HUMAN A	П			SWISSPROT (7		SWISSPROT	Г		SWISSPROT	Δ 5	EST HUMAN to	SWISSPROT H	SWISSPROT		NT B		T HUMAN	Т	Г	EST HUMAN R
Top Hit Acession No.	8393620 NT	928015.1	-216214.1		77569.1	Γ	Γ		Γ						2.7E-01 AE001094.1		2.7E-01 Q81554			2.7E-01 Q11079			2.7E-01 AF248054.1		Π	2.7E-01 AA351121.1		2
Most Similar (Top) Hit BLAST E Value	2.7E-01	2.7E-01	2.7E-01	27E-01 A	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01		2.7E-01 Q00918		2.7E-01 Q00918	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01	2.7E-01 L01081.1	2.7E-01
Expression Signal	0.67	2.03	0.75	0.75	2.57	7.0	3.53	0.94	2.77	b		0.8		0.8	=	1.1	2.04	0.6	1.13	0.79	0.76	0.76	2.34	2.34	0.85	0.85	0.58	0.88
ORF SEQ ID NO:					28966			30320	30352			31968		31967				32778			33383		33536	33537	33598	33599	33686	33873
Exan SEQ ID NO:			- 1	16568			П	١,	18108	18332		19220							1	ı ı	20505	20505	20645	20645	20708	20706	20786	20971
Probe SEQ ID NO:	3251	4024	4035	4035	4043	4958	5148	5481	5518	6750		6672		6872	6969	8969	7163	7438	7483	7827	227	8077	8226	8226	8280	8290	8371	8536

Table 4
Single Exon Probes Expressed in Lung

		7	Т	7	7	7	7	T	7	T .	Ĕ	7		7	7	7	7	7	7	7		7	7	7	٦	Т	Т		7	7
angle Expressed III Lung	Top Hit Descriptor	MAJOR VAULT PROTEIN (MVP)/I IING BESISTANCE BELATER BESATEIN	THREONYL-TRNA SYNTHETASE (THREONINE TRNA 110ASE)	THREONY - TRNA SYNTHETASE (THEONINE TONA LICASE) (THRES	FIMBRIAE W PROTEIN	Mus musculus transcription factor NE ATc lectors a ANE ATc.)	Hamo sablens veroderma piomenthism complementation and CVPGN	Homo saplens xeroderma plantentistim complementation manua C (XPC) gene, intron 9	AV705043 ADB Homo saplens cDNA clane ADRCODOR 5	AV705043 ADB Homo seplens cDNA clone ADBCODOS 51	Hamo saplens caveolin-1/-2 locus, Contig1, D7S522, genes CAV2 (exans 1, 2a, and 2b), CAV1 (exans 1 and 2).	Arabidonsis thaliana mRNA for sulfate transporter committee of	CTD-BINDING SR-LIKE PROTEIN DAA	Homo sabiens fragile 16D oxido padrictase (EOR) gene plans plans	RODUOS-CLASS HOMEODOMAIN PROTEIN 197.3	Bos taurus mRNA for mh-1 complete cde	601510838E4 NIH MCC 74 Home conjust of the conjust	Glychia max pseudopana for Rd 2014	Arabidonais theliana DNA chemicana 2 and 4	Avabidosis italiana DNA chromosoma 4 continuent No. 2	bb04d10.x1 NIH_MGC_14 Homo septens cDNA clone IMAGE.2858451 3' similar to gb:M36072 60S RIBOSOMAL PROTEIN L7A (HUMAN); gb:M14689_cds1 Mouse surfeit locus surfeit 3 protein gene	Human preselly mile sense commission of	B martimus the Land	60128018E1 NIH MGC 9 Home serious april aless introduces en	FST388835 MAGE resembled MAGN.U.	Bacteriphage T2 DNA-(adenine-N6)methyltransferase (dam) nane complete od:	spo portion tank (ann) parameter	Formation septens acetylcholinesterase collagen-like tall subunit (COLQ) gene, exons 1A, 2, 3, 4, and 5	DV1.RT0830_040400133_33 BT0830 U	Enterococcus faecium strain N97,330 van D Alvonentido maistance
פופ האטון רוטג	Top Hit Database Source	SWISSPROT	Т	Т	Т	Т			EST HUMAN	HUMAN			ISSPROT	Т	Т	Į.	Т	T		Į.	EST HIMAN	Т		HUMAN	Т	Į.	$\overline{}$	EST LIBRARI	7	1
5	Top Hit Acession No.	Q14764	083809	ı	,		IΚ	AF156539.1	2.7E-01 AV705043.1	2.7E-01 AV705043.1		2.7E-01 AB008782.1				_						T		2		2.6E-01 M22342.1	2 6E 04 A E 220440 4	T	2.6E-01 BE080598.1	T
	Most Similar (Top) Hit BLAST E Value	2.7E-01	2.7E-01	2.7E-01			2.7E-01	2.7E-01 A	2.7E-01	2.7E-01				27E-01	2.6E-01 P78411	2.6E-01	2.6E-01	2.6E-01	2.6E-01	2.6E-01	2.6E-01	2.6E-01	2.6E-01	2.6E-01	2.6E-01	2.6E-01	2 85 04	265-01	2.6E-01	
	Expression Signal	0.92	10.97	10.97	2.69	1.48	1.93	1.93	1.72	1.72	1.86	1.27	1.21	2.86	1.98	1.62	2.08	1.1	4.91	4.91	7.88	1.12	10.79	7.89	1.07	1.15	80.0	0.88	19.46	
	ORF SEQ ID NO:	34524					35579			36023	36033				26479		26414	26462	26871	28872		27097				28530	28591	29031	29088	
	Exan SEQ ID NO:	1							l	23039	1	. 1	_	- 1	15284	13072	13958	13998	14381	14381	14533	14579	14873	14959	15608	16114	16182	16646	16698	_
	Probe SEQ (D NO:	9182	9573	9573	9574	10129	10212	10212	10594	10594	10604	12226	12335	12438	487	498	1425	1465	1859	1859	2017	2084	2368	2457	3054	3572	3642	4116	4171	

Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Dat aba se Source	Top Hit Descriptor
4531	17049	29431	1.05	2.6E-01	AB021180.1	TN	Gallus gallus mRNA for skeletal myosin heavy chain, complete cds
4531	17049		1.05	2.6E-01	AB021180.1	TN	Gallus gallus mRNA for skeletal myosin heavy chain, complete cds
4584	17100	29490	1.32	2.6E-01	AA457617.1	EST_HUMAN	aa88d07.rl Stratagene fetal retina 637202 Homo sapiens cDNA clone IMAGE:838477 5'
4693	17209		1.53	2.6E-01	U01103.1	NT	Arabidopsis thallana PSI type III chlorophyll afb-binding protein (Lhoa3*1) mRNA, complete ods
4766	17280	29663	1.32	. 2.6E-01	AF142703.1	TN	Ophrestia radioosa maturase-like protein (matK) gene, complete cds; chloropiast gene for chloroplast product
2000	17570	29938	0.95	2.6E-01	AF153350.1	L	Mus musculus metalloprotease disintegrin (Adam28) mRNA, complete cds
5087	77971	29946	3.84	2.6E-01	H04858.1	EST_HUMAN	yj51e05.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:152288 5'
5150	17654		0.84	2.6E-01	AA884625.1	EST_HUMAN	am33b11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1468605 3'
6472	17887		1.08	2.6E-01	AF020503.1	LN.	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5
2692	5 18183		1.12	2.8E-01	AB035972.1	- LN	Paramectum caudatum gene for PAP, complete cds
5708	18290	30716	1.11	2.6E-01	M96060.1	LN.	Acetobacter xylinum cellulose synthase (bcsA) gene, partial cds, CMCax end CopAx genes, complete cds
. 6836	3 18416		0.89	2.6E-01	AI862398.1	EST_HUMAN	td16a03.x1 NCl_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2075789 3' similar to contains element MER35 repetitive element ;
6				9	A CONTEED 4	Ė	Homo saplens protein translocase, JM26 protein, UDP-galactose translocator, pim-2 proteomoogene homolog pim-2h, and shat-type potassium channel genes, complete cds; JM12 protein and transcription factor IGHM proteins? Agence and informations.
6377	7 24983	01010		2.6E-01		- LZ	Thermotoga maritima section 123 of 136 of the complete genome
9515	·	31811	2.09	<u> </u>		EST HUMAN	ts02e12.x1 NCI_CGAP_Pan1 Homo septens cDNA clone IMAGE:2227438 3' slmilar to SW:NDF1_RAT Q64289 NEUROGENIC DIFFERENTIATION FACTOR 1 :contains element LTR1 repetitive element ;
2 7 7	ļ.	ļ				L FRE	ts02e12x1 NCI_CGAP_Pant Homo septens cDNA clone IMAGE:2227438 3' similar to SW:NDF1_RAT CR4289 NFUROGENIC DIFFERENTIATION FACTOR 1 contains element LTR1 repetitive element:
6761	1					L	Nelsseria meningitidis serogroup A strain Z2491 complete genome, segment 6/7
188	L		0.68			EST HUMAN	601581754F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936156 5:
7036	L	L			BE792052.1	EST_HUMAN	601581754F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936166 67
7487	7 19969	32803	0.92	2.6E-01	Al914380.1	EST_HUMAN	wd48c04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2331366 3' similar to gb:M37721 PEPTIDYL-GLYCINE ALPHA-AMIDATING MONOOXYGENASE PRECURSOR (HUMAN);
7767	7 20201	33063	0.42	2.6E-01	U22971.1	FZ	Pisum sativum glutamine synthetase (GS2) gene, nuclear gene encoding chloroplast protein, partial cds
7868	8 20307	33173	0.68	2.6E-01	BE148961.1	EST_HUMAN	CM0-HT0245-031199-085-704 HT0245 Homo saplens cDNA

Probe SEQ ID NO:	Exan SEQ ID NO:	OŘF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7914	24639		1.63	2.6E-01	AL139077.2	N.	Campylobacter jejuni NCTC11168 complete genome; segment 4/6
7955	20392		0.78	2.6E-01	AA198149.1	EST_HUMAN	zp92e01.r1 Stratagene HeLa cell s3 937216 Homo sepiens cDNA done IMAGE:627672 5'
8291	20702	33800	1.9	2.6E-01	R10365.1	EST HUMAN	y37a03.s1 Soares fetal liver spieen 1NFLS Homo saplens cDNA clone IMAGE:129004 3' similar to gb:X12517 U1 SMALL NUCLEAR RIBONUCLEOPROTEIN C (HUMAN):
8352	20767	33663	0.71		Q09855	SWISSPROT	HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C29E8.01 IN CHROMOSOME!
8435	20849		0.63	2.6E-01	AF314149.1	Z	Mus musculus telokin mRNA, complete ods
8528		33864	1.32	2.6E-01	R02411.1	EST_HUMAN	ye82a07.r1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:124212 6'
8564		33896	1.48	2.6E-01	BE144331.1	EST_HUMAN	MRC-HT0166-181199-003-d12 HT0166 Homo septens cDNA
8878	21312	34224	2.99	10-39'Z	BF343588.1	EST_HUMAN	602014422F1 NCI_CGAP_Brn64 Home sapiens cDNA clone IMAGE:4150396 5'
8938		34285	2.32	2.6E-01	Q10199	SWISSPROT	HYPOTHETICAL 75.2 KD PROTEIN C11C11.02 IN CHROMOSOME II
9131	21563	34467	3.91	10-39.Z	BE830339.1	EST_HUMAN	RC5-ET0082-310500-021-F10 ET0082 Homo sapiens cDNA
9131		34468	3.91	2.6E-01	BE830339.1	EST_HUMAN	RC5-ET0082-310500-021-F10 ET0082 Homo sapiens cDNA
9869	22018	34948	0.97	2.6E-01	X17604.1	Z	S. occidentalis INV gene for invertase (EC 3.2.1.26)
							Lontra canadensis cytochrome b (cytb) gene, mitochondrial gene encoding mitochondrial protein, complete
9869			0.97	2.6E-01	AF057121.1	L	cds
9944		35295	1.21	2.6E-01	P87368	SWISSPROT	GREEN-SENSITIVE OPSIN (GREEN CONE PHOTORECEPTOR PIGMENT) (KFH-G)
8944		35298	1.21	2.6E-01	P87366	SWISSPROT	GREEN-SENSITIVE OPSIN (GREEN CONE PHOTORECEPTOR PIGMENT) (KFH-G)
11281			51.91	2.6E-01	X51755.1	FZ	Human lambda-immunoglobulin constant region complex (germline)
11692	23998		1.99	2.6E-01		LX.	Mus musculus Jerky (Jrk), mRNA
11897			3	2.6E-01	BE883491.1	EST_HUMAN	801511052F1 NIH_MGC_71 Hamo sapiens cDNA clane iMAGE:3912812 5
11961		30977	2.37	2.6E-01	AF316896.1	L	Homo sapiens Na/K-ATPase gamma subunit (FXYD2) gene, complete cds, alternatively spliced
12329			1.73	2.6E-01	D88425.1	ĹΝ	Cavia cobaya mRNA for serine/threoine kinase, complete cds
12414			1.19	2.6E-01	AE001713.1	TN	Thermotoga maritima section 25 of 136 of the complete genome
12467			1.29	2.6E-01	AF141325.2	TN	Homo sapiens inositiol polyphosphate 1-phosphatase (INPP1) gene, complete cds
12505	24509		1.21	2.6E-01	P47285	SWISSPROT	HYPOTHETICAL PROTEIN MG039
							Homo saplens ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit (ATP5D), nuclear
254	12854	25271	2.09	2.5E-01	4502296 NT	LΝ	gene encoding mitochondrial protein, mRNA
ì							Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit (ATP5D), nuclear
222	- 1	25271	1.89			L	gene encoding mitochondrial protein, mRNA
268	12866		3.82	2.5E-01	M26501.1	LN-	Starfish (P.ochraceus) cytoplasmic actin gene, complete cds
855	13411	25855	1.49	2.5E-01	U09964.1	Ę	Mus musculus ICR/Swise alveraldehvie 3.nhvshtate dehvitomenses (Gand S) zone, complete ode
1086			1.11		AE002156.1	L	Ureaplasma urealvticum section 57 of 59 of the complete genome
1148	1	26133	5.16	2.5E-01	T89837.1	EST HUMAN	ve11q07.r1 Strategene lung (#937210) Homo segiens cDNA clone IMAGE-117468 51
	L			l			

Probe SEQ ID S NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1725	14253		4.47	2.5E-01	4885406 NT	LN	Homo sapiens hyperpolarization activated cyclic nucleotide-gated potassium charmal 4 (HCN4) mRNA
2306	14813		7.18	2.6E-01	AE000875.1	N-	Aquifex aeolicus section 7 of 109 of the complete genome
2397	14901	27420	4.21	2.5E-01	9679216 NT	Į.	Mus musculus protein-L-tsoaspartate (D-aspartate) O-methytransferase 1 (Pcmt1), mRNA
2401	14905		4.3		AA251987.1	EST_HUMAN	zs11a12.r1 NCI_CGAP_GCB1 Homo sepiens cDNA done IMAGE:684862 5'
2572	15069	27585		2.5E-01	X95310.1	LN-	B.taurus mRNA for D-aspartate oxidase
3390	15936				I SE I	EST_HUMAN	EST385464 MAGE resequences, MAGM Homo seplens cDNA
3517	16060		0.77	2.5E-01	AF233875.1	IN	Danlo rerto peptide YY precursor gene, complete cds
3534	16077	28493	6.7		AL161517.2	N	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 29
4083	16814		1.42		P32323	SWISSPROT	A-AGGLUTININ ATTACHMENT SUBUNIT PRECURSOR
4340	16862		28.0	2.5E-01	Q03314	SWISSPROT	RHIB PROTEIN
4658	17174	Pasoc	29 0		AEDADADA 4	ļ.	Mus musculus neuronal epoptosis inhibitory protein 6 (Naip6) gene, complete cds, and Naip3 gene, exons 2-9
4802	17318			2.5E-01		SWISSPROT	MOLTHURITING HORMONE PRECYREGOR (MIH)
4810	17322					L	Choristoneura fumiferana diapause associated protein 2 (DAP2) mRNA, complete cds
4834	17346	29729			AE004416.1	N L	Vibrio chalerae chromosame II, section 73 of 93 of the complete chromosame
4000	47077		0		A IONOCAL A		Mus musculus anneath V gene, Intron 4 segment containing 5' LTR and gag portion of MuERV-L (murine
200	7/2/				ŢΙ	N	endogenous retrovius, eternan.
4889	17401	28772		2.6E-01	a a	EST_HUMAN	601437468F1 NIH_MGC_72 Homo saplens cDNA clone IMAGE:3922800 5'
4915	17426	29798	0.65		AB011070.1	NT	Mus musculus gene for uncoupling protein 3, 6-flanking region and partial 6UTR
5157	17661	30022	0.61	2.5E-01	AW873588.1	EST HUMAN	ho62f11.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:3041897 3' similar to WP:Y71F9A_294.D CE22858;
5455	17950		2.18	2.5E-01	AI565615.1	EST HUMAN	to16h11.x1 NCI_CGAP_Ut2 Hamo sapiens cDNA clone IMAGE:21782593'
5463	17958		1.54		BE084165.1	EST_HUMAN	PM0-BT0851-110500-004-e09 BT0651 Hamo sapiens cDNA
6229	18167	30532	13.35	2.5E-01	583390.1	. TN	T3 receptor-associating cofactor-1 [human, fetal liver, mRNA, 2930 nt]
6258	18822	31537	29'0	2.5E-01	4,0008345.1	F	Homo saplens KVLQT1 gene
6229	18823		1	2.5E-01	4L163207.2	۲	Hono sepiens chromosome 21 segment HS21C007
6722	19268	32028	0.47	2.5E-01	P22219	SWISSPROT	PROTEIN KINASE VPS16
9869	19523			2.5E-01	AJ251973.1	TN	Homo sapiens partial steerin-1 gene .
7474	19678	32474	0.71	2.5E-01	8394138 NT	TN	Rattus norvegicus rabin 3 (RABIN3), mRNA
7824	20262	33123	0 78	2 5F-04	113992 4	-N	Feline calidylus CFl/68 RNA helicase/cysteine protease/RNA-dependent RNA polymerase polyprotein
7852	20282				Τ	L	Mus musculus SKD1 (Skd1) gene, complete cds
8119	20544	33421		П	2.5E-01 AL161508.2	TN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 18

Probe SEQ ID S NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8167	20589	33470	4.88	2.5E-01	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
8449	20863	33765	0.44	2.5E-01	AL161596.2	IN	Arabidopsis thallana DNA chromosome 4, contig fragment No. 92
8528	20961	සාපෙ	1.91	2.5E-01	BF109040.1	EST_HUMAN	7157a03.x1 Soares_NSF_FB_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525389 3'
8797	21231	34138	1.92	2.5E-01	BF038595.1	EST_HUMAN	601459238F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE;3862809 5:
9095	21627	34434	3.91	2.5E-01	H53236.1	EST_HUMAN	yq84f07.r1 Soares fetal liver spleen 1NFLS Homo sapiens oDNA clone IMAGE:202601 6'
9566	21698	34609	0.84	2.5E-01	M88626.1	NT	Mouse testis-specific protain (TPX-1) gene, exon 10
9704	22127	35052	18.55		U89651.2	NT	Homo sepiens matrix metalloproteinase MMP Rasi-1 gene, promoter region
9704	22127	25053	18.55	2.5E-01	U89651.2	NT	Homo sepiens matrix metalloproteinase MMP Rasi-1 gene, promoter region
9748	22116		1.98	2.5E-01	AF085164.1	NT	Hordeum vulgare receptor-like kinase LRK10 gene, partial cds
9748	22116		1.98	2.5E-01	AF085164.1	LN	Hordeum vulgare receptor-like kinase LRK10 gene, partial cds
10115	22516	35481	1.26	2.5E-01	AW581897.1	EST_HUMAN	RC3-ST0188-130100-015-a07 ST0186 Homo sapiens cDNA
!							xg40c10.x1 NCI_CGAP_Ut1 Homo sepiens cDNA clone IMAGE:2830034 3' similar to contains Alu repetitive
10401	Z Z Z Z		1.7	2.6E-01	AW152246.1	EST_HUMAN	element; contains element MSR1 repetitive element ;
10402	22802		1.57	2.5E-01	X58491.1	L	Mause L1Md LINE DNA
10858	23291		4.33	2.5E-01	D50914.1	L	Human mRNA for KIAA0124 gene, partial cds
11624	23952	37009	4.91	2.6E-01	AF200528.1	NT	Zea mays cellulose synthase-4 (CesA-4) mRNA, complete cds
11653	24945		5.1	2.5E-01	AL161541.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 41
12193	24693		1.47	2.5E-01		EST_HUMAN	AV692543 GKC Homo sapiens cDNA clone GKCGZF10 5'
220	13141		1.21	2.4E-01	AA936316.1	EST_HUMAN	on70d04.s1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1562023 3'
871	13426		2.82		1	EST_HUMAN	602132442F1 NIH_MGC_81 Hamo saplens cDNA clone IMAGE:4271578 5
1336	13872		18.22		1	NT	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
1336	13872		18.22		1	NT	Homo saplens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
1416	13950	26405	1.42		Y17293.1	NT	Homo sapiens FLI-1 gene, partial
1823	14345		10.12		4	NT	Mesembryanthemum crystallinum putative potasslum channel protein Mkt1p mRNA, complete cds
2165	14677	27202	1.84	2.4E-01	AE000680.1	NT	Aquifex aeolicus section 12 of 109 of the complete genome
							7h23d04x1 NCI_CGAP_Co16 Homo saplens cDNA olone IMAGE:3316807 3' similar to SW:PRSE_XENLA
<u>23</u>	14789	27309		١		EST_HUMAN	042586 26S PROTEASE REGULATORY SUBUNIT 8A;
2444 444	14946					NT	D.discoideum (Ax3-K) ponA gene
1777	15211		2.35		X71783.1	NT	S.pombe swi8 gene
2744	15234	27747	3.45	2.4E-01	AF030154.1	NT	Bovine adenovirus 3 complete genome
3083	15647		3.06	2.4E-01	U72726.1	IN	Orza longistaminata receptor kinase-like protein. family member D, and retrofit (gau/pd) genes, complete cds
3108	15661		1.54		X74209.1	LN L	H.sapiens AGT gene, Peti fregment of intron 4
3761	16300	28701	0,81	2.4E-01	AE000312.1	TN	Escherichia coli K-12 MG1655 section 202 of 400 of the complete genome

Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesstan No.	Top Hit Database Source	Top Hit Descriptor
404 44	╻┃		0.74	2.4E-01	2.4E-01 D29960.1	۲	Rattus norvegicus mRNA for alphaB crystallin-ralated protein, complete cds
4977					BE160080.1	EST_HUMAN	QV1-HT0412-020400-136-b10 HT0412 Homo saplens cDNA
5185	17689		1.79		2.4E-01 BE737592.1	EST HUMAN	601572882F1 NIH MGC_67 Hamo saplens cDNA clone IMAGE:3839776 5
5197			0.63		AW078596.1	EST HUMAN	xb18a02.x1 NCI_CGAP_Kid13 Home saplens cDNA clone IMAGE:2576618.3
5197	17700			Ė	2.4E-01 AW078596.1	EST_HUMAN	xb18a02x1 NCI_CGAP_Kid13 Homo saplens cDNA clone IMAGE:2576618 31
5285	17768	30135	2.1	2.4E-01 A	AI277899.1	EST HUMAN	qm50d10.xt Sceres_placenta_stc9weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:1892179.3: similar to ab:1.12693 CFL1.JJ AR NIJCL FIC ACID BINDING PROTEIN (HI MAN):
5407	17903				2.4E-01 Q10156	SWISSPROT	PROBABLE SERINE/THREONINE-PROTEIN KINASE CIDA 11C
6720			0.85		Al925707.1	EST HUMAN	wo33d05.x1 NCI_CGAP_Gas4 Homo sapiens oDNA clone IMAGE:2457129 3'
5720					2.4E-01 Al925707.1	EST HUMAN	wo33d05.x1 NCI_CGAP_Gas4 Homo saciens cDNA clone IMAGE:2457129 3'
5745	_[7.00	2.4E-01	D50871.1	NT	Glycine max mRNA for mitotic cyclin b1-type, complete cds
5924		31184		2.4E-01	2.4E-01 AF091216.1	LN.	Mus musculus Wrn protein (Wrn) gene, complete cds
2924	[.	AF091216.1	<u>ا</u>	Mus musculus Wm protein (Wm) gene, complete cds
5952	. [0.72		2.4E-01 M83377.1	TN.	Gallus gallus brain-derived neurotrophic factor (BDNF) gane, 5' end
6179	24601		1.17		AJ133836.2	IN	Branchiostoma floridae mRNA for calmodulin 2 (caM2 gene)
							776404.x1 NCI_CGAP_B116 Homo septens CDNA clone IMAGE:3338603 3' sImilar to SW:SFR4_HUMAN Q08170 SPLICING FACTOR, ARGININE/SERINE-RICH 4 :contains element TAR1 TAR1 renefitive element
6186		31453	2.59	2.4E-01 Bi	BF592336.1	EST_HUMAN	
6286			2.5	2.4E-01]AI	AF035546.1	Į.	Drosophila melanogaster p38a MAP kinase gene, complete cds
6398			2.48		7661801 NT	Z	Homo saplens HSPC142 protein (HSPC142), mRNA
6454	19010		1.19		AV733787.1	EST HUMAN	AV733787 cdA Homo sapiens cDNA clone cdAADE11 5
6720	19266	32023	0.67	2.4E-01	2.4E-01 AA398672.1	EST_HUMAN	Z70d02.s1 Soares_testis_NHT Homo sapiens cDNA clane IMAGE:727883.3'
6886	19426	32201	1.25	2.4F-01 A	Alfagasa 4	NAMI IN TRE	w682c11.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2323220 3' similar to gb:J03464
7074	19608			L	AA661832.1	EST HUMAN	INVESTOL STATE OF THE SERVICE OF THE
7476	19680			2.4E-01	AF163863.1	۲	Mustela vison tyrosine aminotransferase gene complete cds
7810	20252			2.4E-01	L43001.1	N	Bos taurus guanylyl cyclaso-activating protein 2 (guca2) mRNA complete cds
8010	1		0.57	2.4E-01	2.4E-01 N48732.1	EST_HUMAN	1955c11.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:277460 5
8271	20688		0.47		2.4E-04 (105013.1	FZ	Raffie nonearing Coronics Omiliar boson engagement 2
8273	20890	33582		1	AF229644.1	FZ	Mus musculus DX/mx48e protein (DX/mx48e) mRNA complete cds
8775			1.26	L	AJ006397.1	Į.	Streptococcus pneumonlae rr08 and hk08 genes: two component system 08
8775	1				2.4E-01 AJ006397.1	LN	Streptococcus pneumonlae rr08 and hk08 genes; two component system 08
8889	21323	34234	1.68		AJ012585.1	LNT	Tetrahymena thermophila macronuclear gene encoding ribosomal protein L3, exons 1-2

Probe		ORFSEQ	Expression	Most Similar (Top) Hit	Top Hit Acession	Top Hit	Tan Ult Danadates
SEC ID	S S S S	Ö NÖ	Signal	BLAST E Value	No.	Source	i op nit Descriptor
6906	21501	34410	1.32	2.4E-01	BF242794.1	EST_HUMAN	601877879F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4106298 5'
9743	22070	34995	7.9	2.4E-01		EST HUMAN	wd43e02.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA done IMAGE:2330906 3' similar to contains MER22.b1 TAR1 repetitive element;
9837	L	35176	0.92	2.4E-01	AF220067.1	Г	Drosophila melanogaster SKPB gena, complete cds
9837	ட	35176	0.92	2.4E-01	AF220067.1	N	Drosophila melanogaster SKPB gene, complete cds
10330	Ш	35698	1.86	2.4E-01	Q03692	SWISSPROT	COLLAGEN ALPHA 1(X) CHAIN PRECURSOR
10550	22997	35980	2.68	2.4E-01	AL161494.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 6
11720	24717		2.76		AF004213.1	NT	Arabidopsis thaliana ethylene-insensitive3-like1 (EIL1) mRNA, complete cds
11786	24055		2.11	2.4E-01	AJ278191.1	LN	Mus musculus mRNA for putative mc7 protein (mc7 gens)
12254	24933		1.26	2.4E-01	BF229975.1	EST_HUMAN	RC3-CT0413-100800-023-b06 CT0413 Homo saplens cDNA
12501	24506		4.61	2.4E-01	AL163281.2	ΤN	Homo sapiens chromosome 21 segment HS21C081
404	12980	25402	1.07	23E-01	S75898.1	LN	aromatase [Poephila guttata≂zebra finches, ovary, mRNA, 3188 nt]
929	13221		12.63		U39713.1	L	Mycoplasma genitalium section 35 of 51 of the complete genome
989	13250	25965	26.3	2.3E-01	U67598.1	N	Methanococcus jannaschii section 138 of 150 of the complete genome
958	13510		3.38		BE311893.1	EST_HUMAN	801142073F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3505818 5'
1538	14069	26529	16.0	2.3E-01	TN 08677980 NT	LN.	Mus musculus vacuolar protein sorting 4b (yeast) (Vps4b), mRNA
5	14171	26641	2.81	2.3E-01	Y10887.2	NT	Mus musculus cdh5 gene, exon 1, partial
2344	14850	27368	1.17	2.3E-01	BE297718.1	EST_HUMAN	601175562F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3531015 5
							Escherichia coli translocated intimin co-receptor (tir) and OrfU (orfU) genes, complete cds; and intimin (eas)
2483	14984	27497	. 4.62	2.3E-01	AF113597.1	NT	gene, partial cds
							Escherichia coli translocated intimin co-receptor (tir) and OrfU (crtU) genes, complete cds; and intimin (eae)
2483	14984		4.62	j	AF113597.1	NT	gene, partial cds
2587	15083	27597	3.18	2.3E-01	M11319.1	NT	Human erythropoletin gene, complete cds
1		7 002.0			. 020,000	1414111 1101	no16d08.s1 NCI_CGAP_Phe1 Homo septens cDNA clone IMAGE:1100843 3' similar to contains Alu
2810	-1.	BA9/7	17.1		AAG01378.1	LO LOWAIN	Inchesions, John Strain III. The appears desirant.
3046	.		7.67		K21732.1	EST HUMAN	ynzibu/, st Soares placenta Nozhir Homo septens culva cione ilwa'ci 150507 3
3347	15893	28316	0.94		H69836.1	EST_HUMAN	y/67h10.r1 Soares fetal liver spieen 1NFLS Homo saplens cDNA clone IMAGE:213283 5'
3948	16483		5.54	·	7662133 NT	ΝT	Homo sapiens KIAA0450 gene product (KIAA0450), mRNA
4372	16894	29276	1.07	2.3E-01	R82252.1	EST_HUMAN	y/17701.r1 Soares placenta Nb2HP Homo sapiens oDNA clone IMAGE:149017 5'
4424	16945		2.3		L78789.1	NT	Mus musculus renin (Ren-1c) gene, pramoter region
4481					D90899.1	NT	Synechocystis sp. PCC6803 complete genome, 1/27, 1-133859
4524	17042	29422	2.67	2.3E-01	AF092535.1	NT	Homo sapiens mitogen-activated protein kinase p38delta (PRKM13) mRNA, complete cds
4590	17106				5031984	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15) mRNA
494£			0.82	2.3E-01	J03280.1	NT	Human phenylethanolamine N-methyltransferase gene, complete cds

		7	7	7	Т	7	Т	7	T	7	7	_	7	Т	7	7	7	=	T	7	T	Т	Т	Т	┰	т	т	$\overline{}$	_	Τ-	1
Single Extri Probes Expressed in Lung	Top Hit Descriptor	IMRO-HT0559-240400-014-011 HT0559 Homo seniens cDNA	Rhizobium leguminosarum partial genomic DNA for exposivescharide biospathesis panes	Murthe hepatitis virus strain 2, complete cenome	601646155R2 NIH MGC 59 Home seniors china liva CE 4102002 31	Chlamydophila pneumonlae AR39, section 4 of 94 of the complete parome	Borrella burdorferi 2.9-8 locus. ORF-A-D genes. commens orts and RFDA mans. martiel ade.	HCOEST44 HT29M6 Homo sapiens cDNA clone HCoF44 5'	chn1424-aeg. F Human fetal heart. Lambda ZAP Fygress Humo caniens ChNA 5"	PM4-SN0012-030400-001-b08 SN0012 Homo sepiens oDNA	xx21d07.x1 Sogres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813773.3' similar to TR:Q8Z175	U921/3 LYSYL OXIDASE-RELATED PROTEIN 2.;contains PTR5.b2 TAR1 repetitive element;	AND	Reffus namedrals mRNA for each reted for the control of the contro	Pleimodelee well dietellee ille model Bulb. 3 (B. Di. 3) Data	Bethis namedials mad us and adad to the complete cas	nor2042 of June 1 miles 1	inacconnected by Scientific Indiversion of Septens CLNA clone IMAGE:3395950 3' similar to contains element MER38 repetitive element;	Human von Willebrand factor gene, exons 23 through 34	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 36	oz14a10.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA cione IMAGE:1675290 3' similar to TRE:013040 013040 013040 ATR-BINDING CASSETTE PROTEIN	Homo sapiens PPAR delta gene, promoter region	Fresh-water sponde Emf1 alpha colladen (COLF1) cene	602085608F1 NIH MGC 83 Home seniers china IMA CE 4240080 K	601462629F1 NIH MGC 67 Homo saplens cDNA clone IMAGE:3888190 F	601462829F1 NIH MGC 67 Home septems cDNA clams IMAGE 386840n 5	Homo sapiens chromosome 21 segment HS21C018	PM2-HT0353-281299-003-a12 HT0353 Homo sanians cDNA	PM2-HT0353-281289-003-812 HT0353 Home september cDNA	Homo seniens FRA3R common fracile region disclanceins triboschafe budieles and relative	Arabidopsis thallana DNA chromosome 4, contio fracment No. 62
ااه جيماا ١٦٥	Top Hit Database Source	EST HUMAN	IN	NT	EST HUMAN	¥	NT	EST HUMAN	EST HUMAN	EST HUMAN		EST HUMAN	TOWNER TO THE PARTY OF THE PART	TO LO	LN	L ₂		EST_HUMAN	F	N	EST HUMAN	Į.	Į.	EST HUMAN	EST HUMAN	EST HUMAN	IN IN	EST HUMAN	EST HUMAN	Ę	NT
	Top Hit Acession No.	BE173060.1		AF201929.1			1-	T27231.1	AA089819.1	AW863940.1	l	AW303623.1 RE882464.4	BEGRAND 1			' ~		BF475611.1	M60675.1	AL161535.2	Al052190.1	AF187850.1	34640.1	BF677538.1	2.2E-01 BE618258.1	BE618258.1	2.2E-01 AL163218.2	BE155625.1	BE155625.1		2.2E-01 AL161562.2
	Most Similar (Top) Hit BLAST E Value	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	. C	23E-01	2.3F-01	2.3E-01	2.3E-01	2.3F-01		2.3E-01	2.3E-01	2.3E-01	2.2E-01	2.2E-01/	2.2E-01	2.2E-01 Bi	2.2E-01	2.2E-01 B	2.2E-01	2.2E-01	2.2E-01 BE	2.2E-01	2.2E-01
	Expression Signal	2.89	2.71	0.98	9	3.8	3.6	32.01	1.8	1.81	70.0	8.28	3.19	2.07	78.	1.36		3.42	1.19	1.88	0.78	2.24	1.98	8.83	0.89	0.89	1.95	3.94	3.94	1.68	2.56
	ORF SEQ ID NO:					36603					30570		L					ļ	30595		25123	26584	27044	27327	27620				27806		
	Exon SEQ ID NO:	22393		22734		23562		24062	24661	24082	24874	24924	I.	1	24287	24204		ı	24830	24582	12709	14117	14529	14809	15009	15009	15114	15392	15392	15430	15916
	Probe SEQ ID NO:	9991	10028	10334	10343	11109	11702	11797	11822	11830	11803	11827	11978	12032	12134	12140		12415	12588	12612	8	1585	2013	2302	2508	2508	2619	2836	2836	2875	3370

Table 4
Single Exon Probes Expressed in Lung

Top Hit Descriptor	Drosmbile melanwaster INC-118 (unc. 118) nane commete cris		Mus musculus mixed lineage kinase 3 (MIK3) and two pore domain K+ channel subunit (Konk6) genes,	complete cas	Mus musculus MAP kinase kinase tinase 1 (Mekk1) mRNA, complete cds	Mus musculus MAP kinase kinase kinase 1 (Mekk1) mRNA, complete cds	Human scRNA (BC200 beta) pseudogene	Human scRNA (BC200 beta) pseudogene	RC1-CT0249-141189-021-904 CT0249 Homo sapiens cDNA	Human beta-cytoplasmic actin (ACTBP9) pseudogene	zq87c05.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648988 5'	Human dystrophin gene	Mus musculus vinculin gene, exon 3	MR0-HT0067-201089-002-010 HT0067 Homo sapiens cDNA	yr42h09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:208001 6' similar to	gb:Z14116_ma1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);	Homo sapiens candidate taste receptor T2R9 gene, complete cds	Homo sapiens candidate taste receptor T2R9 gene, complete cds	Homo sapiens diaphanous (Drosophila, homolog) 2 (DIAPH2), transcript variant 156, mRNA	Synechocystis sp. P.C. C3803 complete genome, 19/27, 2392729-2538999	Gallus gallus T-box containing protein (Ch-TbxT) mRNA, complete cds	Gallus gallus T-box containing protein (Ch-TbxT) mRNA, complete cds	Homo sapiens gene for fukutin, complete cds	ab02e09.s1 Stratagene fetal retina 937202 Homo sapians cDNA clone IMAGE:839656 3'	ab02e09.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:839658 3'	AV756238 BM Homo sapiens cDNA clone BMFAHC06 5'	Streptococcus pyogenes phosphotidy/glycerophosphate synthase (pgsA) and ABC transporter ATP-binding	protein (stpA) genes, complete cds; and unknown genes	Streptococcus pyogenes phosphotidy/glycerophosphate synthase (pgsA) and ABC transporter ATP-binding	protein (stp.A) genes, complete cds; and unknown genes	Human glycophorin B gene, exon 4	Human glycophorin B gene, exon 4	Mycoplasma pneumoniae M129 section 45 of 63 of the complete genome	Homo sapiens hamedox B7 (HOXB7) gene, partial cds; and homeobox B6 (HOXB6), homeobox B5 (HOXB5), homeobox B4 (HOXB4), and homeobox B3 (HOXB3) genes, complete cds
Top Hit Database Source	FX		į	I.V.	LN	TN	٦	F	EST HUMAN	Z L	EST_HUMAN	IN.	LN LN	EST_HUMAN		EST_HUMAN	IN	LN-	NT	NT	NT	N	INT	EST_HUMAN	EST HUMAN	EST_HUMAN		NT		LN	NT.	LN-	LΝ	۲
Top Hit Acession No.	AE410102 4	10:00	7 67 74 17 1	4F155142.1	117340.1	1.1			2.2E-01 AW361098.1	D50604.1	2.2E-01 AA211216.1	M86524.1	13289.1	BE141035.1		2.2E-01 H60548.1	2.2E-01 AF227135.1	2.2E-01 AF227135.1	5803002 NT	D64000.1	U67087.1	2.2E-01 U67087.1	AB038490.1	2.2E-01 AA490108.1	AA490106.1	2.2E-01 AV756238.1		AF082738.1		AF082738.1	2.2E-01 M24138.1	2.2E-01 M24136.1	2.2E-01 AE000035.2	2.2E-01 AF287967.1
Most Similar (Top) Hit BLAST E	2 2E 01 A		L	2.2E-01 AF	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01 L1	2.2E-01 BE		2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01 D64000.1	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01		2.2E-01 A		2.2E-01 A	2.2E-01	2.2E-01	2.2€-01	2.2E-01
Expression	1 27		i	1,84	2.23	2.23	1.04	1.04	0.72	1.46	2.82	٦	1.87	1.23		0.93	0.62	0.62	1.48	4.23	0.8	0.8	0.65	0.42	0.42	10.1		1.48		1.48	2.08	2.08	0.73	0.69
ORF SEQ ID NO:								29283				29942	L	30148				30239	31284		31588	31589	32405					32862		١	33054		33289	33548
Exan SEQ ID NO:	18752					16805	16899	16899			17399	17573		17782				17877			18863	1 1		19895	19895	18953		20018		ı	_l		20422	20857
Probe SEQ ID NO:	4227		, 00,	4234	4280	4280	4377	4377	4454	4882	4887	5063	5151	5281		5307	5380	5380	6023	6034	6302	6302	7078	7182	7182	7450		7569		7669	7749	7749	7987	8240

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exan SEQ ID NO:	S C	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8277		33585	0.69	2.2E-01	B024553.1	TN	Bacillus halodurans DNA, complete and partial cds, strain: C-125
8647			2.6	2.2E-01 A	F155143.1	TN	Mus musculus nm23-M1 gene, promoter region
8695	21130		0.97	2.2E-01		LN	E.coli sepA and sepB genes
9274			4.76	2.2E-01	4	ĮN	Thermotoga maritima section 25 of 136 of the complete genome
9357			3.13	2.2E-01	AW855039.1	EST_HUMAN	PM3-CT0263-241299-009-b07 CT0263 Homo sepiens cDNA
9419		34765	1.84		TN 442668	NT	Mus musculus deformed epidermal autoregulatory factor 1 (Drosophila) (Deaf1), mRNA
9473			1.48		-376354.1	EST_HUMAN	MR1-TN0045-110900-008-c02 TN0045 Homo sapiens cDNA
9842	l		1.77		02988.1	EST HUMAN	za04f08.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:291591 51
9557	22120	35048	13.54			SWISSPROT	LARGE PROLINE-RICH PROTEIN BAT2 (HLA-B-ASSOCIATED TRANSCRIPT 2)
9294			0.92	2.2E-01	7857428 NT	N.	Mus musculus osteoblast specific factor 2 (OSF-2), mRNA
9604	22084		4.83	2.2E-01	M89643.1	N	Brachydanio rerio ependymin beta and gamma chains (Epd) gene, complete cds
7000	90000		,	100			Funaria hygrometrica chloroplast-localized small heat shock protein (CPsHSP21) mRNA, complete cds;
1000	1	30249	4.17	2.2E-01 A	T		Nuclear gene for chloroplast product
10481	1		900	2 25 04	DF 20030/.1	ESI TIOMAN	WIGGER 24TI NIT MICC. 19 HOMO SADIBLE CUINA CIONB IMPAGE: 4100169 5
44474	1		200	2 20 0	204040 4		Trained Francisco Complete gardine
41242	22864		17.0	2.25-01	7706245	Ž.	Uncoopnila bac glue gene cluster
	1		30.0	Z.ZE-U1	CLZ00//	N .	nome sapiens H-zk binging ractor-2 (LOC51580), mkNA
11627	23955		2.53	2.2E-01	870959.1	EST HUMAN	601446957F1 NIH_MGC_65 Homo saplens cDNA clone IMAGE:3850670 6'
		_					Homo saplens chromosome Xq28 melanoma antigen family AZa (NAGEAZA), melanoma antigen family A12
11742	24937		3,98	2.2E-01	U82671.2	L.	(MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin (CALT), NAD/P)H dehydronenase-like moten (NSDH), and Lis
11833	24085		3.5	2.2E-01	AF188843.1	TN	Vitis vinifera cultivar Pinot Noir plasma membrane aguaporin (PIP1a) mRNA, complete ods
11945		29361	3.18	2.2E-01		EST_HUMAN	RC1-CT0249-141199-021-g04 CT0249 Homo saplens cDNA
11946			1.21	2.2E-01		EST_HUMAN	h17b02x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2972523 3'
12511			3.26			EST_HUMAN	AV694801 GKC Homo sapiens cDNA clone GKCAHB02 5'
895		25991	1.74	i	2.1E-01 AA569289.1	EST_HUMAN	nm31e11.s1 NCI_CGAP_Lip2 Homo sapiens cDNA clone IMAGE:1061804
866	_1		0.93			NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 16
1151			2.87	2.1E-01 A	AE002314.2	NT	Chlamydia muridarum, section 45 of 85 of the complete genome
1220	İ		1	2.1E-01	6754299 NT	NT	Mus musculus Interferon (alpha and beta) receptor 2 (linar2), mRNA
1229	13768	26215	7	2.1E-01	6754299 NT	NT	Mus musculus interferon (alpha and beta) receptor 2 (ifnar2), mRNA
1869	14391	26883	1.15	2.1E-01	1,806824.1	EST. HUMAN	ok73e02.81 NCI_CGAP_GC4 Homo sepiens cDNA clone IMAGE:1519610 3' similar to gb:K02765 COMPLEMENT C3 PRECURSOR (HUMAN):
2066	14581		2.4	2.1E-01 BF	-695073.1	EST HUMAN	602083129F1 NIH MGC 81 Homo saplens cDNA clone IMAGE:4247603 6'
2242	14751	L	4.98	2.16-01	6753235	LZ	Mus musculus calclum channel, voltage dependent, alpha2/delta subunit 3 (Cacna2da), mRNA

firm III possonity possonity	Hit Top Hit Descriptor	Т	Ŧ	Т	or in the carried factor of the contract of th	Hanto satiens potassium voltage-gated channel, subfamily H (eag-related), member 4 (KCNH4), mRNA		Т	T	Uconesua cavimana calcium-binding protein BP23 precursor (BP23) gene, complete cds	Home contain each act and Alam	P facing making the complete complete control of the cont	T	Т	T	Doto fracilis miliochondria 148 - DNA Comp. Conf.	Himan offerthau records (1994)	T	Т	Т	Canifordia beat VECTON	Charles that the county (N. 1. b) Buttle, Complete cos	Cryonia max magge denydrogenase (Mdh-2) gene, nuclear gene encoding mitochondrial protein, partial cds	Glycine max malate dehydrogenase (Mdh-2) gene nuclear gene enceding mitochemidal	Г	Г	Haemophilus influenzae hmcD, putative haemocin processing protein (hmcC), putative ABC transporter (hmcB), putative heemocin stutctural protein (hmcB), and haemocin imminish, and the contraction of the c		П		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
possidy sage was a series	Top Hit Database Source	FST HIMAN WINAMY 24 Secret	Г	L	114			Т	SWISSPROI	1	Z	L.N	EST HUMAN	L	EST HUMAN	N	ķ	TOBOS	SWISSPROT	L	LN.	Ė		¥	EST_HUMAN yd83b01.r1 Soares f	Г	Haemophilus influen (hmcB), putative hae	NT	EST_HUMAN	EST HUMAN	
	Most Similar (Top) Hit Acession BLAST E No.	L	216-01	2.1E-01 A	2.45.03	70 170	2.1E-01	2 1E-01 F	2.1E-01 A	l	1	2.1E-01 X93161.1	ļ		2.1E-01 BF672695.1	2.1E-01 AJ223392.1				2.1E-01 AE000972.1				2.1E-01 AF068687.1	2.1E-01 T87354.1	2.1E-01	•	2.1E-01 U68399.1	2.1E-01 AL040537.1	4.1E-01 ALU40537.1	
	ORF SEQ Expression ID NO:	27403 1.71		27478 5.16	27852 1 98		28988 1 15	28989 1 15		1.78	29516 2.61					32608 1.21	32520 2.39		33191 0.7		33557 1.73	33614 1.47		33615 1.47	0.58	1.15			34554 U.85	34707	
-	Exon SEQ ID NO:	2380 15336		2484 14985	2879 15434	L		L	L		li		5339 17838	ı	5554 18144	7292 19797	ı	7886 20325			8250 20667	8305 20720	8305 20720		2010 20100	-	7000	0212 2143/		ı	

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Single Exon Probes Expressed in Lung	Top Hit Descriptor	Homo canione nR3D2 man (- il.	Beta witness mount for all and incommended reductions axon 6	DIACYLGLYCEROL KINASE DELTA (DIQLYCERIDE KINASE) (DGK-DELTA) (DAG KINASE DELTA)	(BUTO DIACYLELYCEROL RINASE)	Haroloo Kil Sudres _ Intal_neart_NDHH19W Homo saplens cDNA clone IMAGE:1691751 3'	Proceedings and country of A Party (PPYZ), mKNA	Mono contain fourth 460 and A.A. Contain A.C. A.C. A.C. A.C. A.C. A.C. A.C. A.C	Himan granully sens	7850902 V NCI COAD OCE U.	Gallus dallus mRNA for piene America dun cione IMAGE:3223034 3'	Home carlesse City a seeks (1 Operator)	Ocimicalities complete for the control of the contr	Mus musculus Mate. Under the any cream V-ri pseudogene, allotype VHa2	Finds musculus water misrocompatibility Locus class II region	United 10.1 Foreign complete genome, 7/27, 781449-920916	Home explore and the 21 segment HS210013	DMA LITOLOG SOCIORES	This is a second of the second	nomo sapiens dystroprevin, alpha (DTNA), mRNA	Truth Sapiens rinkny, chromosome 1 specific transcript KIAA0505	nomo sapiens sodum/lodide symporter mRNA, partial cds	Truing suprems 14932 Jaggadz gene, complete cds; and unknown gene	Mental tococcus jannaschill section 67 of 150 of the complete genome	HOMEOBOX PROTEIN GLABRA2 (HOMEOBOX-LEUCINE ZIPPER PROTEIN ATHB-10) (HD-ZIP	PROTEIN ATHB-10)	xp15b02.xf NCI_CGAP_HN9 Homo sapiens cDNA clone IMAGE:2740395 3' similar to contains element MER21 renetitive element	CED-44 PROTEIN	Passer montants accomplished to the second s	OVA ENGRED ASSESSION OF THE PROPERTY (RAG-1) gene, partial cds	V.VCINUUSZ-19USUU-ZZ3-e03 EN003Z Homo sepiens cDNA	HOMEOBOX PROTEIN GLABRA2 (HOMEOBOX-LEUCINE ZIPPER PROTEIN ATHB-10) (HD-ZIP	
gie Exon Pro	Top Hit Database Source	LN	L'A	TOGGSONS	EST LIMON	TN - NO	- LV	Į	Į.	FST HIMAN	L LN	Į.	Į.	Į.	<u> </u>		Į.	ECT LIMANN	TIVE TO INCIDENT	L L	EN L	L	E E	L		SWISSPROT	EST HUMAN	SWISSPROT	NT	T LI GLANI	NAMOU	TOGGS	٦
	Top Hit Acession No.	AB036529 1				4-	X57624						M77085.1	AF027865 1	D90905 1	Al 163213.9	A.1132695 B		8072	AB007974 4	2 0F-01 AF26n700 1			2.0E-01 X82877.1			2.0E-01 AW238005.1		38.1	T	OBOC.	000	
	Most Similar (Top) Hit BLAST E Value	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2 OF-01	2.0E.01	20E-01	2.0E-01	10.0	Z.UE-01 P46607	2.0E-01	2.0E-01 P34641	2.0E-01	20E-01	2.0E-01	2.0E-01 P46607	
	Expression Signal	1.24	4.1	1.82	2,05	22	1.37	1.65	1.51	1.7	213	2.54	1.17	2.98	0.91	3.41	1.32	1.42	2.31	2.31	1.08	1.32	2.67	1.62	6	0.0	0.83	-	1.04	8.61	7.62	0.72	
	ORF SEQ ID NO:	35115	35624	35842						30838	25227		25702	25829	26026	26135	26274	26329	26512	26569	26575				28428	03107		28649	29147		30017	28428	
	Exon SEQ ID NO:	L	22062	22680	23609	23679	24446	24254						13390	L	13695	13822	13876	14047	14106	14110	1	14275	14752	16007		16099	16244	16763	17118	17851	16007	
	Probe SEQ ID NO:	<i>8777</i>	10261	10279	11241	11315	11555	12109	12345	12547	208	525	719	833	1038	1152	1287	1340	1515	1575	1579	1715	1748	2243	3463		3557	3703	4238	4602	5147	5194	
																		_															

Table 4
Single Exon Probes Expressed in Lung

			complete cds										7			,		900							al cds						NA		cds	ods	
Sima III massada ii ma	Top Hit Descriptor	Homo sapiens putative psihHbD pseudogene for hair keretin, exons 1 to 9	Dictyostellum discoldeum cytochrome c oxidase assembly protein (coxA) gene complete cds	Human carcinoembryonic antigen (CEA) gene, exon 4	Rat SOD-2 gene for manganese-containing supercodds dismurase	Homo saplens dual oxidase-like domeins 2 (DUOX2) mRNA	F.rubripes DNA encoding for valy-tRNA synthetase	Saccharomyces cerevisiae Hal5p (HAL5) mRNA, complete cds	Human hepatocyte growth factor gene, exon 1	COLLAGEN ALPHA 2(1) CHAIN PRECURSOR	M.auratus mu class glutathione fransferase gene	PM1-CT0247-141099-001-g08 CT0247 Homo septens cDNA	Mus musculus phosphofractokinase-1 Clsezvme (Pikc) gene, exons 3 through 7	GAMMA-GLUTAMYLTRANSPEPTIDASE PRECURSOR	Mouse germ line gene coding for beta-clobin (Y2)	Andes virus strain 0123133 alvcoprotein G1 and G2 precursor gene partial cds	M.musculus scp2 gene exon 14	Dictyostellum discoldeum random slug cDNA19 protain (18019) mRNA partial cds	Arabidopsis pyruvata decarboxylase-2 (Pdc2) gene, complete cds	Chlamydia trachomatis section 5 of 87 of the complete genome	Homo saplens filamin 2 (FLN2) mRNA, complete cds	Arabidopsis thallana root gravitropism control protein (PIN2) gane, camplate cds	Arabidopsis thallana root gravitropism control protein (PIN2) gene, complete cds	R.norvegicus mRNA for NTR2 receptor	Pimephales promelas liver glucose-6-phosphate-1-dehydrogenase mRNA, partial cds	Homo sepiens ninein-Lm isoform (ninein) mRNA, complete cds	EST387405 MAGE resequences, MAGN Homo saplens cDNA	ov80a10.s1 Soares testis NHT Homo saplens cDNA clone IMAGE:1843610 3	Homo sapiens Ku70-binding protein (KUB3) mRNA, partial cds	Mus musculus fructosamine 3 kinase (Fn3k), mRNA	Rattus norvegious Ary hydrocarbon receptor nuclear translocator 1 (Arni1), mRNA	Mus musculus pale ear (ep) gene, wild type allele, 3' region, partial cds	Homo sapiens lambda/lota protein kinase C-Interacting protein mRNA, complete cds	Homo saplens lambda/lota protein kinase C-interacting protein mRNA, complete cds	RC3-BT0502-251199-011-d01 BT0502 Homo saplens cDNA
	Top Hit Database Source	N	E	Į.	Z	LN	LN LN	N.	N-	SWISSPROT	N.	EST HUMAN	N	SWISSPROT	N	L. L	NT	N	NT	L.	NT	LN	LN	NT	NT	TN	EST_HUMAN	EST HUMAN	N	L	TN	LN	NT	NT	EST_HUMAN
	Top Hit Acession No.	Y19216.1	AF079448.1	M59257.1	X56600.1	11432540 NT	X91856.1	U15300.1	M75967.1	P02467	X61033.1		AF250371.1		V00726.1	AF028026.1	X91151.1	J82511.1	J71122.1	4E001278.1	4F146692.1	4F086907.1				4F302773.1	4W975297.1	A1023592.1	NF078164.2	11528495 NT	7549743 NT	4F004353.1	J32581.2·	J32581.2	3E070801.1
	Most Similar (Top) Hit BLAST E Value	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	20E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	20E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01
	Expression Signal	1.17	5.18	3.78	2.48	2.6	0.83	6.47	0.84	0.57	3.4	4.71	1.45	0.79	0.73	5.49	3.25	0.94	0.85	5.89	2.1	2.14	2.14	0.91	1.24	1.43	1.39	3.8	8.44	1.44	8.89	6.47	1.67	1.67	6.39
	ORF SEQ ID NO:	30118			30711	31277		31659		31910	32077		33058	33232	33847			34935	34955			35426	35427	35672	+	1	30767	30869		30862		26373	25654	25655	25662
	Exan SEQ ID NO:		ı	17867	18286	18591	18696	18924	19043	19160	19311	. 1	- 1	1	20750		ı		٠ ١	22063	22366	22469	22469	22707	24238	24749	24985	24454	24420	24531	12726	12956	13240	13240	13247
	Probe SEQ ID NO:	5248	5286	6369	5702	6017	6127	8366	6488	9810	6768	0889 0890	7752	7830	8335	8598	8778	9584	9812	9736	8864	10068	10068	10307	12087	12308	12320	12363	12387	12542	47	388	675	675	682

Table 4
Single Exon Probes Expressed in Lung

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Top Hit Descriptor	RC3-BT0502-251199-011-d01 BT0502 Homo seniens cDNA	Mus musculus interleukin 2 receptor, gamma chain (Il2rg), mRNA	EST67784 Fetal tung II Homo seniens CDNA 51 end	Sordhum bicolor 22 kDa kafirin cluster	Plasmodium vivax reticulocyte binding protein-2 (rbp-2) gene, complete cds	Arabidopsis thallana endoxylogiucen transferase (EXGT-A4) name complete cds	Homo sepiens hypothetical protein FLJ10581 (FLJ10581) mRNA	Sigmodon hispidus p53 gene, partial cds	Gallus gallus ovalbumin (Y) gene, complete cds	Mouse gene for immunoalobulin diversity region D1	1/4/2/10.rd Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE-170547 6	Rattus norvedicus arviecetamide descetylase cene, complete cda	Schizosaccharomyces pombe DNA for cytoplasmic dynein heavy chain complete cds	CM2-CT0315-271199-045-b11 CT0315 Homo seniens cDNA	MR1-FN0010-290700-007-d04 FN0010 Home septiens CDNA	Arabidopsis thaliana DNA chromosome 4. contig fragment No. 5	Fugu rubribes genes encoding carbamon phosphate synthetese III myrain light chain, MADO	CELL SURFACE GLYCOPROTEIN PRECURSOR (S-LAYER PROTEIN)	L3-CT0215-180200-087-D02 CT0215 Homo saplens cDNA	Rattus norvegicus chemokine receptor CXCR3 mRNA, complete cds	KINESIN-LIKE PROTEIN KIF4	Phoca vitulina partial aar28 gene for alpha adrenergic receptor 28	Homo sapiens cytokine receptor-like malecule 9 (CREME9), mRNA	Pseudomonas aeruginosa PA01, section 155 of 529 of the complete genome	Homo saplens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain	X29807.x1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:2619444 3' similar to gb:M73779 RETINOIC	ACID RECEPTOR ALPHA-1 (HUMAN);	Homo sapiens DNA polymerase epsilon catalytic subunit protein (POLE1) gene, exon 1a	Mus musculus Wm protein (Wm) gene, complete cds	AU133116 NT2RP4 Homo sepiens oDNA clone NT2RP4001328 5'	Chlamydia trachomatis section 26 of 87 of the complete genome	wi54h02.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:2394089 3'
Top Hit Database Source	EST HUMAN	NT.	EST HUMAN	Z	LN.	Z	N TN	N	E	N _T	EST HUMAN	Z	Z	EST HUMAN	EST HUMAN	N N	Z L	SWISSPROT	EST_HUMAN	N	SWISSPROT	Z	Ę	N	<u> </u>	1 6	HOMAN	Z	Ł	EST HUMAN	Į.	EST HUMAN
Top Hit Acession No.	BE070801.1	7305180 NT	AA358813.1	AF061282.1	AF184623.1	AF163822.1	8922533 NT	U66068.1	J00922.1	D13197.1	R16467.1	AF264017.1	AB006784.1	AW754108.1	BE834943.1	AL161493.2	Z93780.1	P25062	AW849203.1	AF223642.1	095239	AJ251178.1	7705331 NT	AE004694.1	4506880 NT	AWARDA ID A	AW130149.1	AF12/83/.1	AF091216.1	AU133116.1	AE001299.1	AI762391.1
Most Similar (Top) Hit BLAST E Value	1.9E-01	1.9E-01	1,9E-01	1.8E-01	1.8E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.8E-01	1.8E-01		1.9E-01	1.9至-01	1.9E-01	1.9E-01	1.9巨-01	1.9E-01	1.9E-01	1.9E-01	100	10-10-1	בס-125	1.95-01	1.9E-01	1.9E-01	1.8E-01
Expression Signal	8.66	1.39	7.86	4.48	5.41	8.41	2.24	3.92	7,53	4.19	5.94	0.75	6.73	1.97	1.08	0.87	0.64	7.09	3.41	0.94	0.94	5.84	0.96	2.19	2.97	4 07	in o	0.40	0.83	6	0.52	0.89
ORF SEQ ID NO:	25662		,	26393			27306	27850		28338		28749	28938	29019	29159	29403	29716		28960			_	30210		30253		34474		31392			31955
Exen SEQ ID NO:	13247	13583	13875	13937	13997	14698	1	15432				16348			16773	17021	17336	17504	17593	_ 1	_ [1	17996	17896	18450	18401	1000	CROSI	18743	18824	19205
Probe SEQ ID NO:	683	1012	1131	1403	1484	2187	2278	2877	2892	3373	3455	3811	4006	4089	4248	4503	4824	4884	5083	5113	6139	5238	6354	6379	5399	5874	5013	2000	07 10	0/10	9290	6857

Table 4
Single Exon Probes Expressed in Lung

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Single Exon Propes Expressed in Lung	Top Hit Descriptor	x14c08.x1 NCI_CGAP_Kid8 Homo saplens cDNA clone IMAGE.2618030 3' similar to gb:X03569 ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR (HUMAN);	vg09a12.s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:31883 3' similar to contains MER13 repetitive element:	P.setivum PS-IAA4/5 gene	Hamo sapiens tubby like protein 1 (TULP1) gene, exons 9-11	Homo sepiens tubby like protein 1 (TULP1) gene, exons 8-11	Drosophila malanogaster testis-specific RNA-binding protein (bruno) mRNA, complete cds	Stabhylococcus aureus todo shock syndrome todn-1 (tst), enterotoxin (ent), and integrase (int) genes,	Arabidoosis thaliana serine/threonina protein phosphatasa hase one (TOPDA) pana cremitais refe	Zea mays starch branching enzyme I (she1) gane, complete ods	Mus musculus recombination breakpoint containing region	Arabidopsis thallana DNA chromosome 4, config fragment No. 57	Homo saplens mRNA for KIAA1198 protein, partial cds	Marsuphal cat beta-globin gene mRNA, partial cds	Marsuptal cat beta-globin gene mRNA, partial cds	Homo sepiens calclum channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	Rattus norvegicus sodium channel I mRNA, camplete cds	Homo saplens partial 5-HT4 receptor gene, exons 2 to 5	Drosophila melanogaster clathrin light chain mRNA, complete cds	Arabidopsis thallana receptor-like kinase LECRK1 (LECRK1) gene, complete cds	Mus musculus p116Rip mRNA, complete cds	Mus musculus Cetg gene for chaperonin containing TCP-1 gamma subunit, partial cds	Homo sepiens calclum channel, vollege-dependent, beta 2 subunit (CACNB2) mRNA, and translated products	Onzlas latibes gene for membrane quanyly cyclase OIGC1, complete cds	wd71f02xf NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:2337051 3'	Dictyostellum discoldeum plasmid Ddp5, complete genome	Yersinia pastis plasmid pCD1	Mus musculus guanylate nucleotide binding protein 1 (Gbp1), mRNA	Mus musculus guanylate nucleotide binding protein 1 (Gbp1), mRNA
GIO EXUIT PIU	Top Hit Database Source	EST_HUMAN	EST HUMAN	NT	IN	Z.	N	Ė	Z	Z.	Į.	IN	IN	LN	N	TN	NT	NT.	Į.	F	LN T	FN	Ĭ	F	EST HUMAN	LN	N	NT	NT
	Top Hilt Acession No.	AW148452.1	R43212.1	X68216.1	AF034920.1	AF034920.1	U73846.1	102699 4	U80922.1	AF072724.1	AF155960.1	AL161557.2	AB033024.1	M14568.1	M14568.1	AF223391.1	M22253.1	AJ243213.1	AF055900.1	AF001168.1	U73200.1	4B022090.1	4502532 NT	4B021490.2	4I912212.1	AF000580.1	4L117189.1	8753947 NT	6753947 NT
	Most Similar (Top) Hit BLAST E Value	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1 05 04	1.8E-01	1.8E-01	1.9E-01	1.9E-01	1.8E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.8E-01		1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01
	Expression Signal	0.79	1.66	0.46	0.93	0.93	0.65		1.3	3.19	0.47	1.65	15.05	1.77	1.77	2.52	2	3.3	1.65	1.9	278	1.46	1.55	0.74	26.0	1.28	8.2	1.77	1.77
	ORF SEQ ID NO:	32028	30397	30402	32753	32764	33018	33274	33286	33355		33968	34464	34644	34645	35962	36672	36865			25043	25287	25394	25758	28000	26101	26308	. 26523	26524
	Exon SEQ ID NO:	19270	18057	18061	19923	19923	20157	20404	20429	20481	20897	21058	21558	21737	21737	22882	23624	23806	24269	24739	12653	15280	12972	13327	13558	13861	13856	14083	14063
	Probe SEQ ID NO:	6724	7388	7392	7418	7418	7712	7988	7995	8049	8485	8623	9126	9305	9305	10535	11258	11446	12136	12519	33	273	385	787	1007	1118	1321	1631	1531

Single Exult Probes Expressed in Ling	Top Hit Descriptor	9g22d10.x5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1761811 3' similar to TR:075936 075936 GAMMA BUTYROBETAINE HYDROXYLASE;	Mus musculus Scyat, Scyat B-ps, Scyat genes for small inducible cytokine A6 precursor, small inducible cytokine A8 precursor, small inducible cytokine A8 precursor.	CV3-DT0018-081299-036-004 DT0018 Homp seniens cDNA	Jonopskium acaule LEAFY protein (LEAFY2) gene, pertiel ods	x41a03.x1 Soares NFL T GBC S1 Homo sablens cDNA clone IMAGE:2659756 3'	QV0-BN0041-070300-147-c04 BN0041 Homo saplens cDNA	601809723R1 NIH MGC 18 Homo sapiens oDNA clone IMAGE:40406213'	y45601.s1 Scares placenta NbZHP Homo sepiens cDNA done IMAGE:161704 3' similar to contains Alu	repoints exement, was placente Nb2HP Homo sepiens cDNA clone IMAGE:161704 3' shriller to contains Alu	repeditive element;	Bovine NB25 mRNA for MHC class II (BoLA-DQB), complete cds	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 56	of the first limited and the second s	ivius finasculus acyao, acyae, acyae, acyae genes for small inducible dycokine As precursor, small Inducible eviolding Ag precursor. Scraff bseudonene, small Inducible cytokine As precursor, complete ad-	Homo saplens DNA for anyloid precursor protein, complete eds.	N.tabacum mRNA pNLA-35	MR3-ST0203-151299-112-g06 ST0203 Homo sapiens cDNA	Mesocricetus auratus Na-taurocholate cotransporting polypeptide mRNA, partial cds	tt57e04.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2134590 3'	RC6-BT0641-300300-011-H03 BT0641 Homo sapiens cDNA	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 90	yx38h08.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:284063 5'	Mus musculus Tnf receptor-associated factor 6 (Traf6), mRNA	Mus musculus Tnf receptor-associated factor 6 (Traf6), mRNA	FORKHEAD BOX PROTEIN E3	y92h02.r1 Soares_multiple_sclerosis_2NbHMSP Homo saplens cDNA clone IMAGE:278163 5'	Homo saplens KiAA0173 gene product (KIAA0173), mRNA	Citulius lanatus mRNA for wsus, complete cds	Citrulius lanatus mRNA for wsus, complete cds
אחוו ביוחדם פול	Top Hit Database Source	EST_HUMAN G	JW FZ	T HUMAN	Т	T HUMAN	T	EST HUMAN 80		Т	T_HUMAN		NT		TN TN			T HUMAN	NT IN	EST_HUMAN #5	EST_HUMAN RO	NT	EST HUMAN y			SWISSPROT FC	EST_HUMAN y			NT
	Top Hit Acesston No.	1.8E-01 AI733708.1	1 8F-01 AR051897 1	T	Τ	Γ	1.8E-01 AW995178.1	BF183582.1	1 RE-01 H03360 1				1.8E-01 AL161556.2		1.8E-01 AB051897.1			W814270.1	Γ.			1.2		6678428 NT	6678428 NT	Q9QY14	94853.1	11430157 NT		
	Most Similar (Top) Hit BLAST E Value	1.8E-01	1.8F-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1 85-01	2	1.8E-01	1.8E-01	1.8E-01		1.8E-01	1.85-01	1.8E-01 X	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1:8E-01
	Expression Signal	1.05	1 05	3.06	1.64	0.85	1.05	1.02	70		1.04	1.09	6.07		2.49	8.08	0.59	2.08	2.49	1.04	0.67	1.06	0.95	1.31	1.31	1.53	2.48	0.57	1.25	1.25
	ORF SEQ ID NO:		26884			27832	28046	28312	28587		28568	i	29497		29717	29823	29987	30019	30103	30136	30499	31355	31495	31728	31729	32178			32764	32765
	Exan SEQ ID NO:	14358	14392	15135		15411	15639	15890	16158	1	- 1		17108		17337	17448	17626	17657			_ }	18661	18788	18997	18997	19402	19450	19769	19932	19932
	Probe SEQ ID NO:	1836	1870	2840	2851	2856	3085	3344	3618		3818	4356	4692		4826	4937	5119	6163	5232	5266	5650	8092	6222	8441	6441	6862	6911	7264	7427	7427

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7488	19692	32488	0.76	1.8E-01	BE961353.1	EST_HUMAN	601648361R2 NIH MGC 62 Homo sepiens cDNA clone IMAGE:3932247 3'
7931	20368	33233	0.82	1.8E-01	AP001511.1	¥	Bacillus halodurans genomic DNA, section 5/14
9228	22002		1.62	1.8E-01	M73258.1	N	Human cellular DNA/Human papillomavirus proviral DNA
9602	22082		1.61	1.8E-01	9626232 NT	٦	Bacteriophage Ike, complete genome
9749	22152	32082	1.13	1.8E-01	P16272	SWISSPROT	AMP NUCLEOSIDASE
9749	22152		1.13	1.8E-01	P15272	SWISSPROT	AMP NUCLEOSIDASE
9776	22178		6.0	1.8E-01	M26019.1	NT	S.commune crotidine-6'-phosphate decarboxylase (URA1) gene, complete cds
9775	22178	35112	6.0	1.8E-01	M26019.1	Ę	S.commune orolidine-5'-phosphate decarboxylase (URA1) gene, complete cds
9884	22287		0.93	1.8E-01	P08123	SWISSPROT	COLLAGEN ALPHA 2(I) CHAIN PRECURSOR
9886	22289	35230	0.87	1.8E-01	U67548.1	Z	Methanococcus Jannaschii section 90 of 150 of the complete genome
10139			0.86	1.8E-01	AF200252.1	IN	Aquartus amplus cytochrome oxidase subunit I (COI) gene, partial cds; mitochondrial gene for mitochondrial product
10283		35646	1.45	1.8E-01	(63440.1	N	M.musculus mRNA for P19-protein tyrosine phosphatase
10434	22886	.35863	3.24	1.8E-01	77336.1	FN	A.thallana mRNA for ribonucleotide reductase R2
10469	22919	35897	5.95	1.8E-01	U38906.1	·	Bacteriophage r1t integrase, repressor protein (mo), dUTPase, inclin and Ivain genes, commilete colo
10520			2.19	1.8E-01	AB018561.1	N	Citrulus lanatus mRNA for wsus, complete cds
10520		32765	2.19	1.8E-01	AB018561.1	TN	Oltrullus lanatus mRNA for wsus, complete cds
10521		35948	4.88	1.8E-01	AF019107.1	LN LN	Dictyostelium discoldeum unknown (DG1041) gene, complete cds
11214		35841	3.31	1.8E-01	X57033.1	N.	B.taurus mRNA for potassium channel
11471	23829	36897	2.94	1.8E-01	8394421 NT	N F	Rattus norvegicus Thromboxane receptor (Toxa2r), mRNA
11661	J		1.57	1.8E-01	10086581 NT	NT	Bovine ephemeral fever virus, complete genome
11727	ŀ	31011	1.52	1.8E-01	BF348623.1	EST_HUMAN	602019928F1 NCI_CGAP_Bm67 Hamo sapiens cDNA clone IMAGE:4155318 57
12221	24333		2.63	1.8E-01	Q96682	SWISSPROT	DNA TERMINAL PROTEIN (BELLETT PROTEIN) (PTP PROTEIN)
12353	24413		13.68	1.8E-01	R24494.1	EST_HUMAN	yh48h10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:133027 5'
12397	24435		1.73	1.8E-01	Y1114.1	NT	E.dispar mRNA for hexokinase (hxkrt)
594	- 1		1.37	1.7E-01	BE385164.1	EST_HUMAN	601274604F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3615768 5'
828	- 1	25825	2.74	1.7E-01	X53330.1	L	P.dumerliii histone gene cluster for core histones H2A, H2B, H3 and H4
985	- 1		1.77	1.7E-01	P35616	SWISSPROT	NEUROFILAMENT TRIPLET L PROTEIN (NEUROFILAMENT LIGHT POLYPEPTIDE) (NF-L)
1084			1.03	1.7E-01	.F081810.1	NT	Lymantria dispar nucleopolyhedrovirus, complete genome
1084		26070	1.03	1.7E-01	F081810.1	NT	Lymantria dispar nucleopolyhedrovirus, complete genome
1926	14445		1.99	1,7E-01 A	F255051.1	NT	Homo saplens BNIP3H (BNIP3H) gene, complete cds; nuclear gene for mitochondrial product
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Table 4 ingle Exon Probes Expressed in Lung

	Top Hit Descriptor	(hpt) gene, partial cds, hemagglutinin/protease VIBCO gene, partial cds	(hpt) gene, partial ods, hemagglutinin/protease VIBCO gene, partial ods	2			mRNA, complete cds	sapiens cDNA clone J2346 5	Anabaena sp. ORF4 (partial), ORF3, ORF2, ORF1, adpA gene, adpB gene, adpC gene, adpD gene, adpE. gene and adpF gene	Homo sepiens derivative 11 breakpoint fragment partial infron 10 of the ALL-1/MLL/HRX gene fused to intron 5 of the AF-4/FEL gene	(hpt) gene, partial cds, hemagglutinin/protease VIBCO gene, partial cds	(hpt) gene, partial cds, hemagglutinin/protease VIBCO gene, partial cds		qh57e09.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:1848808 3' similar to contains OFR.b1 OFR repetitive element;	(2) mRNA, complete cds	MAGE:4298646 5'	MAGE:3827197 6'	MAGE:3631167 6'	MAGE:3631167 5'	mplete cds	e IMAGE:881068 3' similar to gb:M17886 60S	e IMAGE:881066 3' similar to gb:M17886 60S
Single Exon Probes Expressed in Lung	Тор ŀ	Vibrio cholerae hypoxanthine phosphoribosyltransferase (hpt) gene, partial cds, hemagglutinin/protease regulatory protein (hapR) gene, complete ods, and YRAL VIBCO gene, partial cds	Vibrio cholerae hypoxanthine phosphoribosyltransferase (hpt) gene, partial ods, hemagglutinin/protease regulatory protein (hapR) gene, complete cds, and YRAL VIBCO gene, partial cds	EST41651 Endometrial tumor Homo sapiens cDNA 5' end	Naja naja atre ctx-1 gene, exons 1-3	Naja naja atra ctx-1 gene, exons 1-3	Taxus canadensis gerany/geranyl diphosphate synthase mRNA, complete cds	J2346F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2346 5	Anabaena sp. ORF4 (partial), ORF3, ORF2, ORF1 gene and adpf gene	Homo saplens derivative 11 breakpoint fragment p 5 of the AF-4/FEL gene	Vibrto cholerae hypoxanthine phosphoribosyltransferase (hpt) gene, partial cds, hemagglutinin/protease regulatory protein (hapR) gene, complete cds, and YRAL VIBCO gene, partial cds	Vibrio cholerae hypoxanthine phosphoribosyltransferase (hpt) gene, partial cds, hemagglutinin/protease regulatory protein (hapR) gene, complete cds, and YRAL VIBCO gene, partial cds	Schistocerca gregaria alpha repetitive DNA	qh57e09.x1 Soares_fetal_liver_spleen_1NFLS_S1 contains OFR.b1 OFR repetitive element;	Zea mays calcium-dependent protein kinase (MZECDPK2) mRNA, complete cds	602186630F1 NIH_MGC_49 Hamo sapiens cDNA clone IMAGE:4298646 5'	601557256F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827197 6	601309660F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631167 6	601309660F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631167 5	Arabidopsis thaliana AME2 mRNA for protein kinase, complete cds	ne13a02.s1 NCI_CGAP_CG3 Homo septens cDNA clone IMAGE:881066 3' similar to gb:M17886 60S ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN);	ne13a02.s1 NCI_CGAP_Cc3 Home sapiens cDNA clone IMAGE:881066 3' similar to gb:M17886 60S ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN);
gle Exon Pro	Top Hit Database Source	TN	TN	EST HUMAN	F.	2	Ā	EST_HUMAN	ΤN	M	TN	Į,	N	EST_HUMAN	ΝΤ	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN
Sin	Top Hit Acession No.	AF000716.1	AF000716.1	AA336909.1	AJ238738.1	AJZ38736.1	AF081514.1	N55763.1	AJ269505.1	AJ235377.1	AF000716.1	AF000718.1	X52936.1	AI247635.1	U28376.1	BF689719.1	BF030010.1	BE395671.1	BE395671.1	D45354.1	AA470686.1	AA470686.1
	Most Similar (Top) Hit BLAST E Value	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01
	Expression Signal	1.72	1.72	1.78	1.29	1.29	281	6.0	1.61	5.56	1.78	1.78	1.68	1.34	6.18	0.98	0.64	242.34	242.34	1.61	1.99	1.99
	ORF SEQ ID NO:	27786	27787	27855	27926	27927	28027	28311	28381	28895	27786			29780				30220		30309	30649	30650
	Exen SEQ ID NO:	16371	15371	15436	15506	H	15620	15889	15968	18486	15371	15371	17112	17408						17961	18249	18249
	Probe SEQ ID NO:	2814	2814	2881	2951	2951	3066	3343	3424	3951	4480	4490	4596	4897	5170	5213	5333	5364	5364	5468	5664	5664

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Table 4
Single Exon Probes Expressed in Lung

		T	T	T	T	T	T	T	T	T	T	T	T	T	Т	Ţ	T	T	T	T	T	T	T	T	T	Т	T	_	T	Т	Т	1	7
oligie Exon Propes Expressed in Lung	Top Hit Descriptor	Brugia pahangi microfilarial sheath protein SHP3 (shn3) gene, complete cris	1502g06.s1 Soares fetal liver spleen 1NFLS Homo sablens cDNA clone IMAGE:2738683	Rickettsia prowazakiji strajn Madrid E. complete genome: segment 1/4	1823c11.x1 Soares fetal Jung NbH.19W Homo sepiens cDNA clone IMAGE-20454923	1829c11.x1 Soares fetal lung NbHL19W Homo sapiens cDNA clone IMAGE:20454923	600944067T1 NIH MGC 17 Homo septens cDNA clone IMAGE:2960248 3'	Mesocricetus auratus oviductin precursor (OVI) gene, complete cds	Homo saptens HFE gene	Escherichia coli O157:H7 genomic DNA, Sakai-VT2 prophage inserted region	801569022F1 NIH MGC 21 Homo septens cDNA clone IMAGE:3843964 5	PROBABLE PROCESSING AND TRANSPORT PROTEIN ULSG (HFLP) PROTEIN)	COLLAGEN ALPHA 3(IV) CHAIN PRECURSOR	QV3-BN0047-020800-284-d08 BN0047 Homo sapiens cDNA	QV3-BN0047-020800-284-d08 BN0047 Homo saptens cDNA	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation	Homo sapiens homogeniisate 1,2-dioxygenase gene, complete cds	Homo saplens cleavage and polyadenylation specificity factor 3, 73kD submit (CPSF3), mRNA	Homo sapiens cleavage and polyadenylation specificity factor 3, 73kD subunit (CPSE3), mRNA	Rat (SHR strain) SX1 gene	Homo saplens neuroligin 3 lactorm gene, complete cds, alternatively spliced	Homo sapiens neuraligin 3 isoform gene, complete cds, altamatively spliced	Bacillus halodurans ganomic DNA, section 2/14	Human class IV alcohol dehydrogenase (ADH7) gene, exon 3	Drosophila melanogaster mRNA for serine protease Inhibitor (serpin-6), (sp6 gane)	Homo saplens chromosome 21 segment HS21C084	Homo saptens solute carrier family 7 (cationic amino acid transporter, y+ system), member 2 (SLC7A2), mRNA	ng80e07.s1 NCI_CGAP_C69 Homo sepiens oDNA clone IMAGE:1148292.3' similær to gb:L25081 TRANSFORMING PROTEIN RHOG (HIMAAN)	801286547F1 NIH MGC 44 Homo septens CDNA clone IMAGE:3813258 F	Hantaan virus S segment nucleocapsid protein mRNA complete cds	of43e03.s1 NCI_CGAP_CNS1 Hamo sapiens cDNA clone IMAGE:1428924 31	Mus musculus adenomatosis polyposis coli bindina protein Eb1 (Eb1), mRNA	Mus misculis adamate to allamate and bladia
gie Exori Pio	Top Hit Datebase Source	Ę	EST HUMAN	N.	EST HUMAN	EST_HUMAN	EST HUMAN	Į.	Σ	NT.	EST_HUMAN	SWISSPROT	SWISSPROT	EST HUMAN	EST_HUMAN	ĮN	Į	Ę	N.	Ŋ	NT	LN	TN	TN	IN	TN	FN	EST HUMAN	EST HUMAN	LN LN	EST_HUMAN	LN	- LN
	Top Hit Acession No.	U43599.1	H72118.1	AJ235270.1	Al370976.1	Al370976.1	BE300286.1	AF026552.3		AP000422.1	BE734179.1	P16724	Q01955	BF326962.1	BF326962.1	AL114656.1	AF000573.1	7708426 NT		D00384.1	AF217413.1	AF217413.1	1	U16288.1	AJ251749.1	AL163284.2	11427203 NT	AA627972.1	BE390835.1	U37768.1	4A814617.1	00290	7106300 NT
	Most Similar (Top) Hit BLAST E Value	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01/	1.7E-01	1.7E-01
	Expression Signal	9.0	12.08	0.51	0.57	0.57	0.73	1.93	0.77	0.88	10.65	1.26	0.53	0.45	0.45	0.46	1.34	6.68	89.9	2.34	1.04	1.04	10.02	2.25	0.92	2.77	1.38	1.51	8.84	1.65	3.62	15.62	15.62
	ORF SEQ ID NO:	31114	31956				30408			1									1		34589	34590	35094	35183	35242		. 35664	35665	35900		36017	36327	36328
	(i)		19207						_1	- 1	J				_1			_[_]		- 1	- {		_1	22601	22699		22921	-	23034	23328	23328
	Probe SEQ (D NO:	5860	6629	6688	6723	6723	7251	7284	7421	7668	7768	7980	8003	8428	8428	8460	8534	8834	8834	9156	9248	9248	9758	9845	8888	10200	10289	10300	10471	10586	10589	10894	10894

MostSimilar	Most Similar	Most Similar	Most Similar				
Top Hit Acession No.	Signal (Yalua Valua	(Top) Hit Top Hit Acession BLASTE No.	Top Hit Acession No.			Top Hit Database Source	Top Hit Descriptor
2.02 1.7E-01 P15272	2.02 1.7E-01 P15272	1.7E-01 P15272	P15272	P15272	SWIS	SWISSPROT	AMP NUCLEOSIDASE
1.2 1.7E-01 AJZ72584.1	1.2 1.7E-01 AJZ72584.1	1.7E-01 AJZ72584.1	AJ272584.1	AJ272584.1	Ę	-	Bilobella aurantiaca mitochondrial partial COII gene for cytochrome c oxdasse subunit II
37001 5.33 1.7E-01 11418157	37001 5.33 1.7E-01	1.7E-01			NT		Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA
24872 1.36 1.7E-01 AL163278.2 NT	1.36 1.7E-01 AL163278.2	1.7E-01 AL163278.2	AL163278.2	AL163278.2	뉟		Homo saplens chromosome 21 segment HS21C078
24703 1.34 1.7E-01 Al824404.1 ES	1.34 1.7E-01 AI824404.1	1.7E-01 AI824404.1	AI824404.1	AI824404.1	<u> </u>	EST HUMAN	b69g05.x1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:2274872.3' similar to gb:M73779 RETINOIC ACID RECEPTOR ALPHA-1 (HUMAN):
30885 10.33 1.7E-01 U01317.1	30885 10.33 1.7E-01 U01317.1	10.33 1.7E-01 U01317.1	U01317.1	U01317.1	z		Human beta globin region on chromosome 11
25156 2.14 1.6E-01 AF217532.1	25156 2.14 1.6E-01 AF217532.1	2.14 1.6E-01 AF217532.1	AF217532.1		4	LN	Homo sapiens mevalonate kinase gene, exon 8 and 7
25678 1.43 1.8E-01 R31497.1	25678 1.43 1.6E-01 R31497.1	1.43 1.8E-01 R31497.1	R31497.1	R31497.1	3	T_HUMAN	yh75f12.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:135599 57
26538 3.48 1.6E-01 AF298117.1	26538 3.48 1.6E-01 AF298117.1	3.48 1.6E-01 AF298117.1	AF298117.1	AF298117.1	4	NT	Homo saplens homeobox protein OTX2 gene, complete cds
26893 1.27 1.6E-01 P22063	26893 1.27 1.6E-01 P22063	1.27 1.6E-01 P22063	P22063	P22063	S	ISSPROT	AXONIN-1 PRECURSOR (AXONAL GLYCOPROTEIN TAG-1)
1.89 1.6E-01 U10334.1	1.89 1.6E-01 U10334.1	1.89 1.6E-01 U10334.1	U10334.1	U10334.1	싁	NT.	Crassostrea gigas RNA polymerase II largest subunit mRNA, partial cds
27310 2.15 1.6E-01 X94232.1	27310 2.15 1.6E-01 X94232.1	2.15 1.6E-01 X94232.1	1.6E-01 X94232.1	X94232.1		N _T	H.sapiens mRNA for novel T-cell activation protein
27419 2.19 1.6E-01 AB037729.1	27419 2.19 1.6E-01 AB037729.1	2.19 1.6E-01 AB037729.1	1.6E-01 AB037729.1	AB037729.1		NT	Homo saplens mRNA for KIAA1308 protein, partial cds
27818 14.02 1.6E-01 AF185589.1	14.02 1.6E-01 AF185589.1	14.02 1.6E-01 AF185589.1	AF185589.1	AF185589.1		NT.	Homo sapiens cylochrome P450 3A4 (CYP3A4) gene, promoter region
1.6E-01 AF185589.1	27819 14.02 1.8E-01 AF185589.1	14.02 1.6E-01 AF185589.1	AF185589.1	AF185589.1	_	닐	Homo sapiens cytochrome P450 3A4 (CYP3A4) gene, promoter region
20200 1.11 1.0E-01 AJUU3165.1	202000 1.11 1.0E-01 AJUU3165.1	1.0E-01 AJ003165.1	AJ003165.1	AJ003165.1	-1:	Z	Populus trichocarpa cv. Trichobel ABI3 gene
28742 0 75 4 RE 04 AECONOS 4	28742 0.75 4.8E.04.AE00062.4	0.75 4 8E 04 AE00069 4	AJ003185.1	AJ003185.1	=1:	Z !	Populus tricnocarpa cv. I richobel ABI3 gene
2.83 1.6E-01	2.83 1.6E-01	2.83 1.6E-01	,	,		2 2	Alkaracyonus lugiqua sector 145 of 172 of the complete genome
29257 10.96 1.6E-01	29257 10.96 1.6E-01	1.6E-01	_	_			Homo saplens apelin gene, complete cds
17005 3.37 1.6E-01 AW968601.1	3.37 1.6E-01	1.6E-01				EST HUMAN	EST380677 MAGE resequences, MAGJ Homo eaplens cDNA
4.78 1.6E-01	4.78 1.8E-01	1.6E-01					Mus musculus chaperonin subunit 3 (gamma) (Cct3), mRNA
29828 1.97 1.6E-01	29828 1.97 1.6E-01	1.97 1.6E-01				LN	S. cerevisiae chromosome XI reading frame ORF YKR105c
17462 29829 1.97 1.6E-01 228330.1	29829 1.97 1.6E-01	1.97 1.6E-01				N	S.cerevisiae chromosome XI reading frame ORF YKR105o
17513 28887 0.97 1.6E-01 P40631	29887 0.97 1.6E-01 P40631	0.97 1.6E-01 P40631	P40631	P40631		SWISSPROT	MICRONUCLEAR LINKER HISTONE POLYPROTEIN (MIC LH) [CONTAINS: LINKER HISTONE PROTEINS ALPHA, BETA, DELTA AND GAMMA]
17537 29908 1.32 1.6E-01 AA088343.1 E	29908 1.32 1.6E-01 AA088343.1	1.32 1.6E-01 AA088343.1	AA088343.1	AA088343.1	_=	EST HUMAN	2/84h09.s1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:511361 3' similar to TR:E221956 E221955 88 855 BP SEGMENT OF CHROMOSOME YIV
17671 29939 1.03 1.6E-01 AJ006356.1	1.03 1.6E-01 AJ006356.1	1.03 1.6E-01 AJ006356.1	AJ006356.1	AJ006356.1	_	Z	Lycopersicon esculentum Real fragment 2. satellite region
	29940 1.03 1.6E-01	1.6E-01	•	•		N	Lycopersicon esculentum Rsal fragment 2. satellite region
30150 2.43	30150 2.43 1.6E-01	1.8E-01	•	•	1	EST_HUMAN	DKFZp434O1729_r1 434 (synanym: htes3) Hamo sapiens cDNA clone DKFZp434O1729 5
30151 2.43 1.6E-01	30151 2.43 1.6E-01	2.43 1.6E-01	í	í		П	DKFZp43401729_r1 434 (synonym: htes3) Hamo sapiens cDNA clone DKFZp43401729 5'
17847 30204 1.73 1.6E-01 AI874074.1	30204 1.73 1.6E-01	1.73 1.6E-01/	_	_	╗	EST_HUMAN	wm48c08.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2439182 3'

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5397		30261	0.89	1.6E-01	P98158	SWISSPROT	LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 2 PRECURSOR (MEGALIN) (GLYCOPROTEIN 330)
5643	18230	30631	0.88	1.6E-01	L40608.1	N	Plasmodium falcharum (strain Dd2) variant-specific surface protein (var-1) gene, complete cds
5784	18365	30826	3.05	1.6E-01	AW197496.1	EST_HUMAN	xm43f01.x1 NCI_CGAP_GC9 Homo saptens cDNA clone IMAGE:2686969 3' stimitar to TR:075984 075994 HYPOTHETICAL 127.6 KD PROTEIN
5784	18365	30827	3.05	1.6E-01	AW197496.1	EST HUMAN	xm43f01.xf NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2686869 3' similar to TR:075984 075984 HYPOTHETICAL 127.6 KD PROTEIN
6798	18377	31035	2.81	1.6E-01	_	N N	Rattus norvegicus CCAAT/enhancer binding protein epsilon (cebpe) gene, complete cds
6332			1.03	1.6E-01	BE925803.1	EST HUMAN	RC3-BN0034-310800-113-h01 BN0034 Homo saplens cDNA
6578			0.63	1.6E-01	BF183584.1	EST_HUMAN	601809725R1 NIH_MGC_18 Homo saplens cDNA clone IMAGE:4040335 3'
8228		31875	0.53	1.6E-01	1	EST_HUMAN	601809725R1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040335 3'
6767	19310	32075	2.03	1.6E-01		۲N	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 84
6767	19310	32076	2.03	1.6E-01	•	N	Arabidopsis thaliana DNA chromosome 4, contig fregment No. 84
7167	19880	32704	0.87	1.6E-01	ſ	EST_HUMAN	z189d04.r1 Sogres_testis_NHT Homo sapiens cDNA clone IMAGE:729611 51
7187	19898	.32725	0.72	1.6E-01	AB046786.1		Homo saplens mRNA for KIAA1566 protein, partial cds
7241			0.65		BF683630.1	EST_HUMAN	602139855F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4301004 5
7379		30387	6.28	1.6E-01	AW291215.1	EST_HUMAN	UI-H-BI2-egI-b-08-0-UI.s1 NCI CGAP Sub4 Homo sapiens cDNA done IMAGE:27244183'
7760		33086	0.69	1.6E-01	Z49632.1	IN	S.cerevisiae chromosome X reading frame ORF YJR132w
7998	20432		0.53	1.6E-01	BE925803.1	EST_HUMAN	RC3-BN0034-310800-113-h01 BN0034 Hamo saplens cDNA
8337	20752	33648	1.49	1.6E-01	AW246359.1	EST HUMAN	2822248.5prime NIH MGC 7 Homo saplens cDNA clone IMAGE: 2822248 5'
8382		33694	0.57	1.6E-01	3237	1	Mus musculus Car2+>dependent activator protein for secretion (Cados), mRNA
8397			1.11	1.6E-01	AU136625.1	EST HUMAN	AU136625 PLACE1 Homo saplens oDNA clone PLACE1004466 5
823	20974	33875	1.64	1.6E-01	L49349.1	TN	Gorilla gorilla androgen receptor gene, partial exon
9234	21666	34576	1.08	1.6E-01	R13673.1	EST_HUMAN	y/60h08.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:26873 5
8321	21753	34661	2.06	1.6E-01	Z49501.1	LN.	S.cerevislae chromosome X reading frame ORF YJR001w
9417	21849	_	0.83	1.6E-01	AF111167.2	Ļ	Homo sanjens tun dimerization protein gene pertiej ode: efee gene powertet ode:
0086	22203		1.82	1.6E-01 B	F375171.1	EST HUMAN	RC3-ST0200-041199-011-h01 ST0200 Home seniens cDNA
9801	22204	35141	2.18	1.6E-01		N _T	S.cerevisiae chromosome X reading frame ORF YJR001w
9827	22230		1.28	1.6E-01 B	BE155664.1	EST HUMAN	PM2-HT0353-270100-004-f11 HT0353 Homo septems cDNA
10450	22901	35879	2.91	1.6E-01	W850853.1	EST HUMAN	IC3-CT0220-111199-028-G01 CT0220 Homo sapiens cDNA
10781	23218	36201	1.98	1.6E-01 B	E259649.1	EST HUMAN	601145763F1 NIH MGC 19 Homo saplens cDNA clone IMAGE:3161183 5
10898	23328		3.35	1.6E-01 A	F106064.1	N	Plasmodium falciparum calcium-dependent protein kinase-3 (cdpk3) gene, complete cds
11168	23546	36586	4.61	1.8E-01	6671552 NT	FN	Mus musculus adaptor-related protein complex AP-1, beta 1 subunit (Ap1b1), mRNA

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Detabase Source	Top Hit Descriptor
11574	ı		1.91	1.6E-01	6679466 NT	INT	Mus musculus protein kinasa. cGMP-denendent has II (Prico), mBNA
11698	. 1		2.69	1.6E-01	AV719585.1	EST HUMAN	AV719585 GLC Homo saniens CDNA clone Cl CEMED F
12019		30950	1.41	1.6E-01 L	L14933.1	N	Rat convertase PC5 mRNA 6' end
12052	24218		1.37	1.6E-01	1.6E-01 AW839711.1	EST HUMAN	RC1-LT0074-120200-014-h01 11 T0074 Homo semiens cDMA
12157	24680		12.88		1.6E-01 AB045310.1	NT	Occumis sativus KS mRNA for ent-kaurene svorthese commiste ode
12340	24408		2.83		AK024496.1	TN.	Homo septens mRNA for FLJ00104 protein partial cds
12433	24467		2.85	1.6E-01	AF287344.1	Ł	Fuchsia hybrid cultivar Qiu 94208 ribosomai protein S10 gene, partial ods; nuclear gene for mitochondrial product
12461	24481	30878	1.91	1.6E-01	┖	L N	Refus novenicus chandralin sulfate protections 6 (normalismo 0) (0
12593	24570			1.6E-01 B	BF672698.1	EST HUMAN	1602152004E1 NIH MGC 81 Home contains CNNA Alma NA OC. (2004 4 E)
261	12859	25276	1.47	1.5E-01	1.5E-01 BE710087.1	EST HUMAN	C-1525
281	12859	25277	1.47	1.5E-01	1.5E-01 BE710087.1	EST HUMAN	IL3-HT0619-040700-197-E015 H70R19 Hvmc capable and All All All All All All All All All Al
98	15257		1.92	1.55-01	1.5E-01 AV711696.1	EST HUMAN	AV711696 DCA Hamo sepiens cDNA clane DCAADHOR 5'
802	13364	25799	1.28	1.5E-01	1.5E-01 AL163284.2	N	Homo sepiens chromosome 21 segment HS21Cn24
1119	13663	26103	0.85	1.5E-01	1.5E-01 AJ009735.1	N	Oprinus carpio mRNA for EGGS22 museln haavy chain 31 ITD
1124	13668	28107	3.08	1.5E-01	1.5E-01 AJ251885.1	N-	Homo saplens partial SLC22A2 dene for crossnic cation transmorter (OCT2) avand
÷	13684		1.45	1.5E-01 L	L36125.1	N	Rattus novedicus insulin-resnonsive riturase fransconter (GI 1174) anna Eustain.
1247	13785	26231	1.69	1.5E-01	1.5E-01 AW195516.1	EST HUMAN	xn39d11x1 NCI CGAP Kid11 Homo saniens cDNA chare IMAGE: secences of
1308	13843	26292	4.36	1.5E-01	D26535.1	¥	Human gene for dihydrolingemide succinv/transferase, complete and forms 4.45)
1308	13843	26293	4.36	1.5E-01	1.5E-01 D26535.1	¥	Human dene for dihydrollingamide succinytransferors complete out (2000)
1510	14042	26509	1.57	1.5E-01	1.5E-01 AF117340.1	Z,	Mus musculus MAP kinasa kinasa kinasa (Makkt) mRNA Ammora ada
2663	15156	27668	2.95	1.5E-01 BI	BF695381.1	EST_HUMAN	602083269F1 NIH MGC 81 Homo sepiens cDNA clone IMAGE-4247537 57
2868	15423		1.02	1.5E-01 A	AW572516.1	EST HUMAN	xw58a02.x2 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2831978 3' similar to gb:X65072_ma1 THYROID HORMONE RECEPTOR AI PHA 1 JULIAAAN.
2894	15549	27961	9.0	1.5E-01	M81441.1	IN.	Bos faurus factor V variant 2 (factor V) mDNA commission
3013	15568	27980	0.65	1.5E-01	1.5E-01 078687	SWISSPROT	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 4
3325	15872	28294	4.88	1.6E-01	,		0068d05.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1571337 3' similar to gb:M11433
3345	15891	28313	0.71	1.5E-01	1.5E-01 Z23104.1	L Z	Labonalis mRNA for G protein-consideration
3346	15891	28314	0.71	1.5E-01		Ψ	Listanalis mRNA for G protein-counied receptor
3757	16298	28697	1.99	1.5E-01 U	09964.1	FZ	Mus musculus ICR/Swiss alvaeraldehyde 3-nhoshafa dahudroomaan oo
3769	16307	28708	0.98	1.5E-01	7108358 NT		Homo sapiens pyruvate dehydrogenase kinase, Isoenzyme 1 (PDK1), nuclear gene encoding mitochondrial

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יייניים באחו בוסדפא באליופאפת ווו דתונל	Top Hit Descriptor	XYNA: Thermoanseroharterium van 4: 4182 hase and re	hi10008 xt Soares NF T GRC St Home contains child Alma HAADE and Add an	Populity trichocama cv. Trichohel ARI3 gene	Populus frichoceros cv. Trichohel ARI3 cens	RC2-H70149-191099-012-c09 H70149 Home saniens cDNA	Homo sablens chromosome 21 segment HS21Cn84	1801583968F1 NIH MGC 7 Homo seniens CONA chine IMAGE 302824E F	601583968F1 NIH_MGC 7 Homo sepiens cDNA clone IMAGE:3938245 6'	Plesmodium falciperum strain Dd2 heat shock protein 86 (HSP86), O1 (o1), O3 (o3), O2 (o2), CG8 (og8), CG4 (og4), CG3 (og3), putetive chloroculine resistance fransmirter (n1), CG3 (cn0), CG4 (cn1), CG4 (cn1), CG4 (cn1), CG4 (cn1), CG4 (cn1), CG4 (cn2), C	CG2 (cg2), and CG7 (cg7) genes, complete cds	802087192F1 NIH MGC 57 Home septems cDNA clone IMAGE-4066223 6:	802083269F1 NIH MGC 81 Hamo seniens cDNA clone IMAGE-4247837 F	Arabidopsis thallana DNA chromosome 4. contile fragment No. 60	Homo saplens calbindin 1 (28kD) (CALB1) mRNA	THROMBOSPONDIN 1 PRECURSOR	Calman crocodilus MHC class II beta chain (hcliheta) nene complete cut	SEX HORMONE-BINDING GLOBULIN PRECURSOR (SHBG) (SEX STEROID-BINDING PROTEIN)	II 3-CT0218-160200-084-E40 CT0230 Home studies ables	Mus musculus transforming growth factor sinks (TGEs) mRMA complete 2.2.	Mus musculus transforming growth factor alpha (TGFs) mRNA commists As	Homo saplens sodium channel, voltage-gated, type VI, alpha polymentide (SCNRA) mPNA	Mus musculus DNA methyltransferase 2 (Dramt2), mRNA	Mus musculus DNA methyltransferase 2 (Dnmt2), mRNA	Mus musculus genomic fragment, 279 Kb, chromosome 7	601564322F1 NIH MGC 20 Homo saplens cDNA clone MACE 3833081 F	Homo saplens RAD64 (S.cerevisiae)-like (RAD54.) mRNA		nincerza o virus (orivendang/480/94) NB protein gene, complete cds; and neuraminidase gene, partial cds Archecoalphin finialis	Home carlons objective secured to or 172 or the complete genome	numo sapiens chiomosome 5 open reading frame 3 (C5ORF3), mRNA GLUTAMATE—CYSTEINE LIGASE REGULATORY SUBLINIT (CAMMA - 11 ITAMY CYSTEINE
פום באסון ביוס	Top Hit Database Source	NT	EST HUMAN	NT	LN L	EST HUMAN	ĮŅ.	EST HUMAN	EST_HUMAN		TN	EST HUMAN	EST HUMAN	LN LN	LN	SWISSPROT	Z	TORGENING	EST HUMAN	LN	LN	L	N L	F	N	EST HUMAN	E		5		2
	Top Hit Acession No.	M97882.1	AW665983.1	AJ003165.1	AJ003165.1	AW366659.1	AL163284.2	BE791253.1				BF687665.1	BF695381.1		9451	P07996	AF256652.1	P15198	754.1		U65016.1	4506810 NT	6753659 NT	6753659 NT	AJ276505.1	BE727658.1	4506396 NT	AE424007.4	T	1773B	11117500
	Most Similar (Top) Hit BLAST E Value	1.5E-01	1.5E-01	1.6E-01	1.5E-01	1.5E-01	1.6E-01	1.5E-01	1.5E-01		1.5E-01	1.6E-01	1.5E-01	1.5E-01	1.5E-01	1.6E-01	1.5E-01	1.5E-01	1.5E-01	1.5E-01	1.6E-01	1.5E-01	1.5E-01	1.6E-01	1.5E-01	1.5E-01	1.6E-01	1 AE 01	1.5E-01	1.5F-04	2
	Expression Signal	0.8	2.35	0.68	0.68	1.06	10.61	9.0	9.0		4.26	1.19	2.48	1.65	1.02	2.32	1.07	6.93	5.12	8.43	8.43	0.78	1.85	1.85	2.41	3.11	2.37	ď	1.81	5.43	
	ORF SEQ ID NO:		28813	28830	28831				29419				27668				30481		31040						31640	31804		31970			
	Exan SEQ ID NO:			16425					17040		- 1		ı		1	' I	18126	18169		18424			_	18869	18907	19063	19119	19222	24616	19422	
	Probe SEQ ID NO:	3783	3873	3890	3890	4062	4189	4622	4522		4604	4777	4805	6609	5235	5506	5536	5581	2800	5844	5844	6200	9308	8308	8349	6209	6568	6674	6852	6882	

Table 4 India Exon Probes Expressed in Lin

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| Top Hit Descriptor | AMELOGENIN | mesocialistics of the GOBO Home ambies and the contract of | HYPOTHETICAL 54.7 KD PROTEIN IN THECTAL BINTER SECTION OF SECTION (SECTION OF SECTION OF | EST382376 MAGE resentiernes: MAGK Homo sonions ANA | ob73f02.s1 NCI_CGAP_GCB1 Homo sepiens cDNA done IMAGE:1337019 3 similar to contains element | Home sapiens HARP (HARP) name awar 17 and accentate all | Heronbasa modera mDNA for linearity 1 and confined cos | W62008-X1 NCI CGAP 111 Home canions - DNA stone IMACE-246444.2 | Bos faurus Niemann-Pick hose C1 disease nortein (NBCA) word A | Bos faurus Niemann-Pick from C1 disease ample /NIDC47 w DNA | U-HF-BNO-akk-4-05-0-11 rt Nith MGC 50 Home seniors ONNA class 188 05:35-75-25-75 | UI-HF-BNO-akk-d-05-0-UI 11 NIH MGC 50 Homo seniens conta claracitatore in the contact of the con

 | Saccharomyces cerevisiae weak multicopy surpressor of lost-1 (SOI 3) game, complete and | MEROZOITE RECEPTOR PKG6 PRECURSOR / GR KD PROTECTIVE MINOR STIBERAGE ANTICETIVE | 0085912.51 NCI_CGAP_Kid5 Homo sepiens GOVED for a clone INGE: 1573030 3' similar to gb:M28062 INTER! FI KIN 1 DECEDTOR DETAIL OF A COVENITY OF | BATETAREST NICH WOO 74 HOWAIN PRECURSOR (HUMAN); | C18800 Clontech himen earlies advise + mDNA (###70) U

 | Pandasianodon nigas growth hormone (CLI) DNA

 | Homo saplens mRNA for ASK1, complete cits
 | Homo sepiens adaptor-related protein complex 1, beta 1 subunit (ADTB1) mRNA | 2859e06.s1 Sogres fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:296866 3' similar to | GV000444 Human Psoriasis Differential Disclay Lorge Society - PNIA | AV754819 TP Homo saniens CONA chine TDA AUDA 2 E | Acipenser transmontano vitellogenin mRNA merital ada | Abhsia californica carbovonantidasa D mBNA complete cuto | Aplysia californica carboxoseptidase D mRNA complete cde
 | P. Jeniusculus mRNA for integrin bela subunit | WK53h12x1 NCI_CGAP_Pr2z Homo sapiens oDNA clone IMAGE:2419175 3' similar to gb:M27508 BETA GALACTOSIDASE-RELATED PROTFIN PRECIPSOR (HI IMAN). | wk53h12.x1 NCI_CGAP_Pr22 Homo sepiens oDNA clone IMAGE:2419175 3' similar to gb:M27508 BETA GALACTOSIDASE-RELATED PROTEIN PRECURSOR (HUMAN) |
| Top Hit
Database
Source | SWISSPROT | EST HUMAN | SWISSPROT | EST HUMAN | EST HIMAN | LN | l'2 | EST HUMAN | L | F | EST HUMAN | EST HUMAN

 | N | SWISSPROT | EST HIMAN
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 | EST HUMAN | 1 5 | F | 5 | 5
 | EST_HUMAN | , |
| Top Hit Acession
No. | | , - | - | | | AF210842.1 | AJ223986.1 | Al973157.1 | AF299073.1 | AF299073.1 | AW600611.1 | AW500611.1

 | U46560.1 | P21303 | A970317.1
 | E884799.1 |

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 | 184476.1 | 4501972 | | T
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| Most Similar
(Top) Hit
BLAST E
Value | 1.55-01 | 1.5E-01 | 1.6E-04 | 1.5E-01 | 1.5E-01 | 1.5E-01 | 1.5E-01 | 1.5E-01 | 1.5E-01 | 1.5E-01 | 1.5E-01 | 1.5E-01

 | 1.5E-01 | 1.5E-01 | 1.5E-01
 | 1.5E-01 | 1.5E-01

 | 1.5E-01

 | 1.5E-01 | 1.5E-01 | 1.5E-01 | 1.6E-01
 | 1.5E-01 | 1.5E-01 | 1.6E-01 | 1.5E-01 | 1.5E-01
 | 1.5E-01 | 1.5E-01 |
| Expression
Signal | 2.71 | 0.96 | 1.9 | 5.81 | 0.76 | 2.36 | 0.54 | 1.78 | 1.2 | 1.2 | 1.6 | 1.6

 | 0.88 | 1.16 | 66.0
 | 1.15 | 11.57

 | 2.01

 | 2.11 | 2.03 | e | 1.24
 | 2.51 | 6.93 | 8.93 | 8.93 | 2.52
 | 2.35 | 2.35 |
| ORF SEQ
ID NO: | 32258 | 32382 | 32414 | 30405 | | | 33126 | | | | 33424 | 33425

 | 33601 | 34013 | 34135
 | |

 | 34300

 | 34405 | 34584 | 34769 | 34824
 | | 33847 | 35336 | 35337 | 35547
 | 35611 | 35612 |
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NO: | | | L | | | | | LI | - 1 | | - |

 | 20708 | 2111 | 21228
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 | 21496 | 21674 | 21845 | 21901
 | 21906 | 20948 | 22386 | 22386 | 22580
 | 22646 | 22646 |
| Probe
SEQ ID
NO: | 6941 | 7054 | 7085 | 7396 | 7441 | 7662 | 7824 | 7869 | 8112 | 8112 | 8124 | 8124

 | 8292 | 8676 | 8794
 | 8829 | 8932

 | 8955

 | 98 | 9242 | 9413 | 9470
 | 9475 | 8657 | 9984 | 9984 | <u>5</u>
 | 10245 | 10245 |
| | Exon ORF SEQ Expression (Top) Hit Top Hit Acession ID NO: Signal BLAST E No. Source | Exon ORF SEQ Expression 1D NO: Crop Hit 32258 Top Hit Acession 1D NO: Top Hit Acession 1D NO: Top Hit Acession 1D NO: Database Source NO: Signal NO: Signal No: Source Source Source 18479 32258 2.71 1.6E-01 Q28482 SWISSPROT AMELOGENIN | Exon
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Source
Source 19479 32258 2.71 1.5E-01 328462 SWISSPROT
SWISSPROT 19649 32244 1.9E-01 AA714760.1 EST_HUMAN 196419 32414 1.9E-01 AA714760.1 EST_HUMAN 1.6E-01 PRO143 SWISSPROT 1.6E-01 PRO143 SWISSPROT | Exon
NO: ORF SEQ
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BLAST E
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No. Top Hit Acession
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Source 18479 32258 2.71 1.5E-01 328462 SWISSPROT
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SOURCE 19588 32382 0.96 1.5E-01 AA74760.1 EST HUMAN 18619 32414 1.9 1.6E-01 PA0143 SWISSPROT 18065 30405 5.81 1.5E-01 AA91456.1 EST HUMAN 20108 2.36 1.5E-01 AA91642.1 NT 20266 33126 0.54 1.5E-01 AA91622.1 INT 20268 33126 0.54 1.5E-01 AA91623.1 INT 2038 33416 1.78 1.5E-01 AA91622.1 INT 2058 33416 1.2 1.5E-01 AA91622.1 INT 2058 33417 1.2 1.5E-01 AA900011.1 EST HUMAN 2058 33426 1.6 1.5E-01 AA900011.1 EST HUMAN </td <td>Exon
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22258 Expression
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SWISSPROT
1.6E-OI AA714760.1 EST_HUMAN 24631 32444 1.9 1.5E-OI AA811645.1 EST_HUMAN 20708 33126 0.54 1.5E-OI AA811645.1 EST_HUMAN 20588 33416 1.2 1.5E-OI AA811645.1 EST_HUMAN 20588 33416 1.2 1.5E-OI AA811645.1 EST_HUMAN 20588 33416 1.2 1.5E-OI AA810345.1 INT 20588 33416 1.2 1.5E-OI AA8000611.1 EST_HUMAN 20588 33416 1.2 1.5E-OI AA8000611.1 EST_HUMAN 20588 33416 1.6E-OI AA8000611.1 EST_HUMAN 20589 1.5E-OI AA8000611.1 EST_HUMAN 21208 34361 1.16E-OI AA800061.1 EST_HUMAN</td><td>Exon
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Signal
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Signal Expression
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 24631 32405 5.81 1.5E-01 A714760.1 EST HUMAN 20265 33405 5.81 1.5E-01 A781042.1 NT 20266 33174 1.78 1.5E-01 A714760.1 EST HUMAN 2058 33416 1.2 1.5E-01 A714760.1 EST HUMAN 2058 33424 1.6 1.5E-01 A7147 | Exon
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19479 ORF SEQ
22258 Expression
Signal (Top) Hit
ILASTE
Value Top Hit Acession
Platabase Top Hit
Database
Source 19479 32258 2.71 1.6E-OI Q28462 SWISSPROT
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1.6E-OI AA714760.1 EST_HUMAN 24631 32444 1.9 1.5E-OI AA811645.1 EST_HUMAN 20708 33126 0.54 1.5E-OI AA811645.1 EST_HUMAN 20588 33416 1.2 1.5E-OI AA811645.1 EST_HUMAN 20588 33416 1.2 1.5E-OI AA811645.1 EST_HUMAN 20588 33416 1.2 1.5E-OI AA810345.1 INT 20588 33416 1.2 1.5E-OI AA8000611.1 EST_HUMAN 20588 33416 1.2 1.5E-OI AA8000611.1 EST_HUMAN 20588 33416 1.6E-OI AA8000611.1 EST_HUMAN 20589 1.5E-OI AA8000611.1 EST_HUMAN 21208 34361 1.16E-OI AA800061.1 EST_HUMAN | Exon
NO:
1967B ORF SEQ
2010
1978 Expression
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1979 (Top) Hit
1979 Top Hit Acession
1978 Top Hit Aces | Exon
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1962 ID ORF SEQ
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1963 32258 Expression
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10 NO:
1964 32258 Most Similar
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1.5E-01 Top Hit Acession
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1.6E-01 Ace Hit Acession
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197 | Exon
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	-	Most Similar			
ORF SEQ Expression (Top) Hit Top Hit Acession ID NO: Signal BLASTE No.	(Top) Hit BLAST E Value	Top Hit Ace No.	sslon	Top Hit Database Source	Top Hit Descriptor
35662 1.27 1.5E-01 U40932.1	1.5E-01	=		N	Danio rento transcription factor Pax9b (Pax9) mRNA, complete cds
1.44 1.6E-01	1.6E-01		П	TN	Claviceps purpurea ps1 gene
1.44 1.5E-01	1.5E-01			NT	Claviceps purpurea ps1 gene
1.63	1.5E-01			EST_HUMAN	CM2-BT0688-210300-122-f11 BT0688 Homo saplens cDNA
1.63 1.6E-01	1.5E-01	ш		EST_HUMAN	CM2-BT0688-210300-122-f11 BT0688 Homo saplens cDNA
4.24 1.5E-01	1.5E-01 /	-		TN	Hamo sapiens chromosome 21 segment HS21C080
4.24 1.5E-01	1.5E-01 /	~ 1		NT .	Homo saplens ohramosome 21 segment HS21C080
36283 2.33 1.5E-01 AW841915.1	1.5E-01			EST_HUMAN	IL5-CN0024-030300-025-D04 CN0024 Homo saplens cDNA
36329 2.33 1.5E-01 AA425488.1	1.5E-01	AA425488.1		EST HUMAN	zw48d02.r1 Soares, total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:773081 6' similar to contains element MER22 repetitive element:
33174 1.66 1.5E-01 AI973157.1	1.5E-01	Al973157.1	Ī	EST_HUMAN	w52c08x1 NCI_CGAP_Ut1 Hamo saplens cDNA clone IMAGE:2491310 3'
1.86 1.5E-01 Al884404.1	1.5E-01	•		EST HUMAN	wm32a05.x1 NCI_CGAP_Ut4 Homo septens cDNA clone IMAGE:2437616 3' similar to TR:Q13539 Q13539 MARINER TRANSPOSASE, contains Alu repetitive element:
	1.5E-01	144	Ť	EST HUMAN	602128753F1 NIH_MGC_56 Homo saplens cDNA clone IMACE:4285549 6'
1.71 1.5E-01 AF030358.2	1.5E-01	⋖	Ī	N	Rattus novegicus chemokine CX3C mRNA, complete cds
1.19 1.5E-01 AB026898.1	1.5E-01	AB026898.1		NT	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds.)
1.5E-01	1.5E-01		Ī	T HUMAN	yp87e04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:194430 5'
2.25 1.5E-01	1.5E-01	141	Ē		AV741272 CB Hamo sepiens cDNA dane CBDAGD04 57
	1.5E-01	•		L	Campylobacter jejuni NCTC11168 complete genome; segment 1/6
	1.5E-01	AJ276242.1	Ī	LΝ	Sus scrofa mRNA for sodium iodide symporter
1.4E-01 /	1.4E-01 A	AF009663.1		NT	Homa saplens T cell receptor beta locus, TCRBV8S5P to TCRBV21S2A2 region
1.4E-01 D	1.4E-01	D78638.1			Xenopus laevis mRNA for DNA (cytosine-5-)-methytransferase, complete cds
1.4E-01 T91864.1	1.4E-01 T91864.1	T91864.1		THUMAN	yd54c01.s1 Scares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:112032.3'
0.89 1.4E-01	1.4E-01		6679980 NT	L L	Mus musculus growth differentiation factor 5 (Gdf5), mRNA
	1.4E-01 A	AE001710.1	-	NT	Thermotoga maritima section 22 of 138 of the complete genome
13.45		AA720615.1	Ī	EST_HUMAN	ny72d07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283821 3'
1.4E-01 P	1.4E-01	ΙΟ.,	Ϊ	SWISSPROT	GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE PRECURSOR (GPAT)
27618 2.31 1.4E-01 BE439741.1	1.4E-01 B	•	Ī	EST_HUMAN	HTM1-598F HTM1 Homo sapiens cDNA
	1.4E-01 A		Ī	EST_HUMAN	wm74d01.x1 NCI_CGAP_UZ Homo saplens cDNA clone IMAGE:24416653'
0.98	1.4E-01 B		Ī	EST HUMAN	602013527F1 NCI_CGAP_Bm64 Hamo saplens cDNA clone IMAGE:4149126 5
9.94	1.4E-01	AI699094.1	Ī	Т	b56c02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2273570 3'
9.94 1.4E-01 A	1.4E-01 A	AI699094.1		T_HUMAN	to 6602.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2273570 3'
29163 4.34 1.4E-01 AE001710.1	1.4E-01 A	A CATACOTA	ĺ	LN	Thermotons martina saction 22 of 138 of the complete genome

							B. 31
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7677	18057		30 0		**************************************		450b01.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453673.3' similar to gb:X01057_ma1 INTERLEUKIN-2 RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);contains Alu
4932		29820	4.03	1.4E-01.A	AV689659 1	EST HUMAN	rependive erament; AV888850 CKC Homo comings and Area CKCRI CAC FI
5202			0.89	1.4E-01 U	U12283.1	NT I I	Mus musculus transcription factor USF2 (USF2) game, expns. 8-10 and complete ade
5239			5.7	1.4E-01	1.4E-01 AW866022.1	EST HUMAN	QV3-SN0022-100500-186-h09 SN0022 Homo saplens cDNA
5370			1.65	1.4E-01	1.4E-01 BE969740.1	EST HUMAN	601679690F1 NIH_MGC_78 Homo sepiens dDNA clone IMAGE:3949799 5'
6869			6.12		1.4E-01 T90677.1	EST_HUMAN	ye15c11.s1 Stratagene lung (#937210) Homo saptens cDNA clone IMAGE:117812.3
5582			6.08		1.4E-01 AB004558.1	Ν	Candida tropicalis DNA for mitochondria NADP-linked isocitrate dehydrogenase, complete ods
6682			5.06		1.4E-01 AB004556.1	P.	Candida tropicalis DNA for mitochondrial NADP-linked isocitrate dehydrogenase, complete ods
9625			3.39	1.4E-01	1.4E-01 BE326891.1	EST HUMAN	hr67c02x1 NCI CGAP Kid11 Homo sepiens cDNA clone IMAGE:3133538 3'
6830		32148	3.99	1.4E-01	1.4E-01 AU117147.1	EST HUMAN	AU117147 HEMBA1 Homo sepiens cDNA clane HEMBA1000769 5
6830			3.99	1.4E-01	1.4E-01 AU117147.1	EST HUMAN	AU117147 HEMBA1 Homo septens cDNA clone HEMBA1000769 5
6924	19463	32241	4.2	1.4E-01	1.4E-01 AW082796.1	EST HUMAN	xb71d12.x1 Soares NFL T GBC S1 Homo seriens cDNA clone IMAGE-2581751.3
8638			1.57	1.4E-01	1.4E-01 BE266536.1	EST HUMAN	601193523F1 NIH MGC 7 Homo sapiens cDNA clane IMAGE:3537681 5
6961		32277	2.63	1.4E-01	1.4E-01 BF378533.1	EST HUMAN .	QV1-UM0036-080300-103-d09 UM0036 Homo seplens oDNA
7566			0.82	1.4E-01	1.4E-01 AL118568.1	EST HUMAN	DKF2b761A0910 11 761 (synonym: hamy2) Homo seniens cDNA chros DK E7-2741A0040 #
7863			. 1.9		AW015373.1	EST HUMAN	UI-H-BID-eat-c-09-0-UI.st NCI CGAP Sub1 Homo saniens cDNA clone IMAGE-7710280 3
7891	20330	33196	0.64		1.4E-01 F08745.1	EST HUMAN	HSC1DB011 normalized infant brain cDNA Homo sapiens cDNA clone c-14h01
7847	20384		0.62	1.4E-01/A	AI762827 1	EST HIMAN	wi04f12x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:23892853' similar to SW:ICE4_HUMAN PAGRE2 CASPASE4 DEFICI IDSOD
8152	LJ	33450	0.7	1.4E-01	1.4E-01 U85645.1	NT	Oncolegus cunculus fructose 1.8. bisobosabete aidolese (AidR) gens complete add
8307			0.68		1.4E-01 Al305192.1	EST HUMAN	qi90b12x1 Soares NhHMPu S1 Homo sapiens cDNA cione IMAGE:1879583 31
8982	_		1.28		1.4E-01 AV659047.1	EST HUMAN	AV659047 GLC Hamo saplens cDNA clone GLCFSHRR 3'
8289		34631	5.23		1.4E-01 AA307073.1	EST HUMAN	EST178192 Colon carcinoma (HCC) cell line Homo sapiens cDNA 6' end
9424	1	34772	1.25	1.4E-01	R62746.1	EST HUMAN	V10h05.r1 Soares placenta Nb2HP Homo septems cDNA clone IMAGE-138873.5
9424	- 1		1.25	1.4E-01	R62746.1	EST HUMAN	V10h05.r1 Soares placenta Nb2HP Homo saplens cDNA clone IMAGE:138873.5
9465	21898	34818	10.2	1.4E-01	1.4E-01 BF310959.1	EST_HUMAN	601895465F1 NIH_MGC_19 Homo saplens CDNA clone IMAGE:4124824 5'
0532	24047	07070	7	Ļ	, , , , ,	1	zd94a04.r1 Soares, fetal heart NbHH19W Homo sapiens cDNA clone IMAGE:357102 5' similar to contains
OKRO	1		3.	1.4C-01 W	W83411.1	ESI_HUMAN	element KEK repetitive element;
8000			1.13	1.4E-01 Y1	710196.1	L	Homo saplens PHEX gene
8805	22012	34942	1.13	1.4E-01 Y1	Y10198.1	NT	Homo sapiens PHEX gene
9854	20945	33845	1.83	1.4E-01 A	F121361 1	F	Drosophila melanogaster signal transducting adaptor protein (STAM), serine threonine kinase iai (IAL), and
					.=!55!:!		

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10024		35374	1.02	1.4E-01 A	AF023813.1		Macromitrium levatum small ribosomal protein 4 (rps4) g ine, chloroplast gene encoding chloroplast protein, partial cds
10620	23063	36049	3.53	1.4E-01	R53400.1	EST_HUMAN	y/70c05.r1 Soares breast 2NbHBst Homo saplens cDNA clone IMAGE:154088 5'
10879		36310	2.3		1.4E-01 P08648	SWISSPROT	INTEGRIN ALPHA-6 PRECURSOR (FIBRONECTIN RECEPTOR ALPHA SUBUNIT) (INTEGRIN ALPHA-F) (VLA-5) (CD49E)
11175	23655		1.89		1.4E-01 AL161496.2	NT	Arabidopsis thallana DNA chromosome 4, contig fragment No. 8
11220		35847	2.66	1.4E-01	U28760 1	L	Borrella burgdorferi glyceraldehyde-3-phosphate dehydrogenase (GAPDH), phosphoglycerate kinase (PGK), infosmboshatte lennersee (TDI) nense complete ode
11282	23647		2.25		X52102.1	NT	M.musculus of 6K dene for 16 kDe protein
11834	l				15.	N-	Ephydatia fluviatilis mRNA for aldolass, partial cds
11985		30945	3.62			LN	P.salina plastid gene sec Y
11999	24186		2.42	1.4E-01	11968117 NT	LN L	Rattus norvegicus desmin (Des). mRNA
12027			1.49	L	E964835.2	EST HUMAN	601658490R1 NIH MGC 69 Home saplens cDNA clone IMAGE:38856713'
12049	24951		2.11		E513802.1	EST HUMAN	601315638F1 NIH MGC 8 Homo saplens cDNA clane IMAGE:3634329 5'
12162	24282		3.4		F083221.1	E	Fugu rubripas putativa neurotransmittar raceptors, YDR140w homolog, and glycinamide ribonucleotida transformulasa (CART) ruppes complete and
12163	24289		2.44		64004 1	LV	Synechorystis sp. PCCRR03 crumilets response 23/27 2868787 2002088
12248	L		4.26	1.4E-01		SWISSPROT	TYROSINE-PROTEIN KINASE TRANSFORMING PROTEIN ABI
12272	24366		1.33	1 4F_01	, r	ECT LIMAN	হওবিভ12.r1 Sogres_ total_fetus_Nb2HF8_9w Homo sepiens cDNA clone IMAGE:788014 6' similar to contains
12465	l		1.36	1.4E-01	11425031 NT		rus ichours deniali, Homo sanlans anh/h-R3 (FENR3) mRNA
12488			4.38	1.4E-01	1.4E-01 D82983.1	LZ	Mis misculis mRNA for amildes complete of
12572			2.3	1.4E-01 A	8.1	EST HUMAN	MR0-HT0208-221299-204-c08 HT0208 Homo sapiens cDNA
336		25345	2.87	1.3E-01	4758467 NT	N	Homo saplens G protein-coupled receptor 50 (GPR50) mRNA
336		25346	2.87	1.3E-01	4758467 NT	NT	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
547	13119	25528	2.68	1.3E-01 A	B013139.1	NT	Homo saplens gene for NBS1, complete cds
655	13220	25631	0.71	1.3E-01	1.3E-01 AJ277608.1	L	Human calicivirus HU/NLV/Girlington/83/UK RNA for capsid protein (ORF2), strain HU/NLV/Girlington/83/UK
655	13220	25632	0.71	1.3E-01	1.3E-01 AJ277608.1	L	Human calicivirus H.IVII V/Girlingtan/83/ IK RNA for cancel and on 10859.
867			0.87	1.3E-01 X	53330.1		P.dumeniii histone gene cluster for core histones HZA HZB. H3 and H4
917	13471		1.58	1.3E-01	F139518.1	NT	Rattus novegicus A-kinase anchor protein mRNA, complete cds
1052		26037	1.59	1.3E-01		NT	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation
1154	13697		2.35	1.3E-01	1.3E-01 AL115285.1	NT	Botrydis cinerea strain T4 cDNA library under conditions of nitrogen deprivation

Table 4
Single Exon Probes Expressed in Lung

Top Hit Descriptor	AV712467 DCA Homo sapiens cDNA clone DCAAFF06 6'	Homo sapiens adapter protein CMS mRNA, complete cds	Mus musculus procellagen, type XI, alpha 1 (Col11a1), mRNA	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation	Rhodopseudomanas acidophila pucB5, pucA5, pucA6, pucA6, pucA7, pucA7, pucA8, pucA8 and pucC genes and ORF151	RC4-ST0173-191099-032-d12 ST0173 Homo saciens cDNA	Archaeoglobus fulgidus section 91 of 172 of the complete genome	Carassius auratus keratin type I mRNA, complete cds	Homo saplens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T64 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes,	Conjustic cus, and titype cardim channel as Decoming Indianalisated the Confession of the Confession o	Process Hallackiii O I S genomic DIVA, 1-26/000 nt. position (117)	Figurectus notinostili O i 3 genomic DINA, 1-28/000 nt. position (117) Homo sabilens DDA diene für dibudiodici debudionamens 4 18KP 4/241 soon 3	Pyrococcus horikoshii OT3 penomio DNA 1-287000 nt postition (177)	Pyrococcus horikoshii OT3 gengmic DNA, 1-287000 nt mostition (1/7)	Raftus norvegicus Fibrinogen, damma polypeptide (Ford), mRNA	Arabidopsis thallana DNA chromosome 4. contid fragment No. 77	Bactertophage SPBc2 complete genome	QV3-DT0018-081289-038-a03 DT0018 Hamo sapiens cDNA	Schistosoma mansoni fructose bisphosphate aldolase mRNA, complete cds	xv23f10.xt Scares_NFL_T_GBC_S1 Homo septens cDNA clone IMAGE:28139953'	Homo saplens chromosome 21 segment HS21C080	Bovine branched chain alpha-keto acid dihydrolipoyi transacylase mRNA, complete cds	601128096F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2990063 5'	602154305F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295544 5	H.saplens gene encoding translin, exon 3	RC4-TN0077-180900-012-005 TN0077 Homo saplens cDNA	Homo saplens chromosome 21 segment HS21C084	Homo sapiens chromosome 21 segment HS21C084	ha07b06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA done IMAGE:2872979 3' similar to contains L1.b1 L1 L1 repetitive element :	QV0-UM0093-100400-189-a08 UM0093 Homo sapiens cDNA
Top Hit Database Source	EST_HUMAN A	F		NT B	TN B	EST HUMAN F			I 5									П	NT	T_HUMAN		NT	EST_HUMAN 6	EST_HUMAN 6	H	EST_HUMAN R	Г	H H	EST HUMAN	1
Top Hit Acession No.	AV712467.1	AF146277.1	6680957 NT	AL117078.1	AJ243578.1	AW812104.1	AE001016.1	M86918.1	A E408770 4						78840	AL161581.2		AW364341.1			AL163280.2		BE272339.1	1.1	Y12564.1	BF091980.1		AL163284.2	AW466988.1	\prod
Most Similar (Top) Hit BLAST E Value	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1 35.04	_			_	1.3E-01		1.3E-01	1.3E-01	1.3E-01	1.3E-01	_				-			1.3E-01 /	1.3E-01	1.3E-01	
Expression Signal	1.74	1.16	2.86	1.5	1.36	1.03	3.47	1.69	α α	0.00	0.78	0.63	0.63	0.63	0.63	1.5	1.06	4.13	2.04	21.98	1.26	0.62	2.62	1.18	0.99	0.67	2.58	2.58	0.85	2.07
ORF SEQ ID NO:	26230		26850	26924				27519	28300	28684	28885	28671	28664	28665	28747				28099	29115		29411	29474	29563			30160	30161	30531	30602
Exon SEQ ID NO:		14005		14427	14591	14696	14785	15008	15878	16260	16260	16267	16260	16260	16346	16536	16683	16702	16709	16727	16859	17033	17087	17185	17529	17635	1738	17794		18205
Probe SEQ ID NO:	1246	1473	1829	1908	2077	2185	2277	2507	3332	3720	3720	3727	3782	3782	3809	4002	4156	4175	4182	4202	5	4515	4570	4669	50.0	5130	5294	5294	5578	5618

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21320 4.67 1.3E-01 7741021 NT 21320 4.67 1.3E-01 Z741021 NT 21356 4.67 1.3E-01 Z741021 NT 21356 34362 1.19 1.3E-01 BF8905221 EST_HUMAN 22538 34560 4.29 1.3E-01 AF023129.1 NT 22538 35506 0.83 1.3E-01 AW851599.1 EST_HUMAN 22653 1.29 1.3E-01 AL163246.2 NT 22683 1.29 1.3E-01 AL163248.2 NT 23443 2.5 1.3E-01 BF330999.1 EST_HUMAN 24707 30589 1.73 1.3E-01 BE182449.1 EST_HUMAN 24420 1.55 1.3E-01 AD242790.1 NT 24420 1.55 1.3E-01 AD263829.1 NT 24438 1.77 1.3E-01 AD263820.1 NT 24438 1.77 1.3E-01 AD263820.1 NT	21200 34717 0.63 1.3E-01 7741021 NT 21320 4.67 1.3E-01 Z741021 NT 21320 4.57 1.3E-01 Z741021 NT 22451 34860 4.29 1.3E-01 AF023120.1 EST_HUMAN 22478 1.29 1.3E-01 AF023240.1 NT 22638 35608 0.83 1.3E-01 AL163246.2 NT 22683 1.29 1.3E-01 AL163246.2 NT ST_HUMAN 23443 2.52 1.3E-01 BF330999.1 EST_HUMAN 24078 30989 1.73 1.3E-01 BE279449.1 EST_HUMAN 24420 3.19 1.3E-01 AB51369.1 EST_HUMAN 24420 3.19 1.3E-01 AB2146.1 EST_HUMAN 24420 3.19 1.3E-01 AB21760.1 NT 24420 1.55 1.3E-01 AB026820.1 NT 24438 1.77 1.3E-01 AB026820.1 NT </td
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1834 0.84 1.3E-01 AF107783.1 NT 18430 0.72 1.3E-01 AF056880.1 NT 18430 31259 0.77 1.3E-01 BF277281.1 EST_HUMAN 18849 31570 0.59 1.3E-01 BF527281.1 EST_HUMAN 18840 31570 0.59 1.3E-01 BF527281.1 EST_HUMAN 18870 32289 1.79 1.3E-01 M73425.1 EST_HUMAN 18870 32289 0.77 1.3E-01 H73425.1 EST_HUMAN 20760 0.77 1.3E-01 H73425.1 EST_HUMAN 20760 0.77 1.3E-01 H748684.1 EST_HUMAN 20760 0.77 1.3E-01 H748684.1 EST_HUMAN 20760 1.35 1.3E-01 H742326.1 NT 21050 1.45 1.3E-01 H762560.1 EST_HUMAN 21265 34171 0.83 1.3E-01 H76252120.1 RST_HUMAN 21350 4.57 <td< td=""><td>18344 0.084 1.3E-01 AF107783.1 NT 18430 0.72 1.3E-01 AF056860.1 NT 18649 31509 0.72 1.3E-01 BF271020.1 EST_HUMAN 18849 31570 0.59 1.3E-01 BF572281.1 EST_HUMAN 18849 31570 0.59 1.3E-01 BF572281.1 EST_HUMAN 18849 31570 0.59 1.3E-01 BF572281.1 EST_HUMAN 18849 31570 0.59 1.3E-01 A8031328.1 NT 18870 32238 1.79 1.3E-01 M73425.1 EST_HUMAN 18888 0.45 1.3E-01 M73425.1 EST_HUMAN 18889 0.71 1.3E-01 M73425.1 EST_HUMAN 20160 0.77 1.3E-01 BF62860.1 EST_HUMAN 20160 0.77 1.3E-01 BF681616.1 EST_HUMAN 201760 0.77 1.3E-01 BF681616.1 EST_HUMAN 201761 33952 1.45 1.3E-01 BF681616.1 EST_HUMAN 21320 4.67 1.3E-01 BF681616.1 EST_HUMAN 22018 34600 4.29 1.3E-01 AF023129.1 NT 22538 35508 0.83 1.3E-01 AF023129.1 NT 22538 35508 0.83 1.3E-01 AF02340.2 EST_HUMAN 2365 35608 1.3E-01 AF02340.2 EST_HUMAN 23707 30898 1.73 1.3E-01 BE133099.1 EST_HUMAN 24420 1.3E-01 BE133099.1 EST_HUMAN 24420 1.73 1.3E-01 BE133099.1 NT 24430 1.73 1.3E-01 AF02340.1 EST_HUMAN 24420 1.73 1.3E-01 AB026820.1 NT 24430 1.77 1.3E-01 AB026820.1 NT 24430 1.77 1.3E-01 AB026820.1 NT 24430 1.77 1.3E-01 AB026820.1 NT 2550 1.550 AB026820.1 NT 2560 1.550 AB026820.1 NT 25707 30898 1.77 1.3E-01 AB026820.1 NT 25707 30898 1.77 1.3E-01 AB026820.1 NT 25707 AB026820</td></td<>	18344 0.084 1.3E-01 AF107783.1 NT 18430 0.72 1.3E-01 AF056860.1 NT 18649 31509 0.72 1.3E-01 BF271020.1 EST_HUMAN 18849 31570 0.59 1.3E-01 BF572281.1 EST_HUMAN 18849 31570 0.59 1.3E-01 BF572281.1 EST_HUMAN 18849 31570 0.59 1.3E-01 BF572281.1 EST_HUMAN 18849 31570 0.59 1.3E-01 A8031328.1 NT 18870 32238 1.79 1.3E-01 M73425.1 EST_HUMAN 18888 0.45 1.3E-01 M73425.1 EST_HUMAN 18889 0.71 1.3E-01 M73425.1 EST_HUMAN 20160 0.77 1.3E-01 BF62860.1 EST_HUMAN 20160 0.77 1.3E-01 BF681616.1 EST_HUMAN 201760 0.77 1.3E-01 BF681616.1 EST_HUMAN 201761 33952 1.45 1.3E-01 BF681616.1 EST_HUMAN 21320 4.67 1.3E-01 BF681616.1 EST_HUMAN 22018 34600 4.29 1.3E-01 AF023129.1 NT 22538 35508 0.83 1.3E-01 AF023129.1 NT 22538 35508 0.83 1.3E-01 AF02340.2 EST_HUMAN 2365 35608 1.3E-01 AF02340.2 EST_HUMAN 23707 30898 1.73 1.3E-01 BE133099.1 EST_HUMAN 24420 1.3E-01 BE133099.1 EST_HUMAN 24420 1.73 1.3E-01 BE133099.1 NT 24430 1.73 1.3E-01 AF02340.1 EST_HUMAN 24420 1.73 1.3E-01 AB026820.1 NT 24430 1.77 1.3E-01 AB026820.1 NT 24430 1.77 1.3E-01 AB026820.1 NT 24430 1.77 1.3E-01 AB026820.1 NT 2550 1.550 AB026820.1 NT 2560 1.550 AB026820.1 NT 25707 30898 1.77 1.3E-01 AB026820.1 NT 25707 30898 1.77 1.3E-01 AB026820.1 NT 25707 AB026820

Table 4
Single Exon Probes Expressed in Lung

							B
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1409		26399	3.93	1.2E-01	1.2E-01 AU149146.1	EST_HUMAN	AU149146 NT2RM4 Home capiens cDNA clone NT2RM4001891 3'
1409			3.93	1.2E-01	1.2E-01 AU149146.1	EST_HUMAN	AU149146 NT2RM4 Homo sapiens cDNA clone NT2RM4001691 3'
1415	13949		1.43	1.2E-01	AV735249.1	EST_HUMAN	AV735249 cdA Homo sepiens cDNA clone cdAAJB11 5'
1534	14099		1.59	1.2E-01	1.2E-01 AA897474.1	EST HUMAN	648609.sr Soares NFL_T_GBC_S1 Homo saplens cDNA clone IMACE:1460584 3' similar to TR:Q16671 Q16671 ANTHMULLERIAN HORMONE TYPE II RECEPTOR PRECURSOR.
1639	14170	26640	0.95	1.2E-01	014934	SWISSPROT	NUCLEAR FACTOR OF ACTIVATED T-CELLS, CYTOPLASMIC 4 (T CELL TRANSCRIPTION FACTOR NFAT3) (NF-ATC4) (NF-AT3)
1655	14186	26658	2.37	1.2E-01	1.2E-01 AI285402.1	EST HUMAN	qt69f09.x1 NCI CGAP Eso2 Homo sapiens cDNA clone IMAGE:1960553 3'
1756			10.87	1.2E-01	X89211.1	Υ	H.saplens DNA for endogenous retrovinal like element
2511	15012	27523	0.89	1.2E-01	1.2E-01 AW998558.1	EST_HUMAN	QV3-BN0046-220300-129-f10 BN0046 Homo sepiens cDNA
							ts18g07.x1 NC_CGAP_Pan1 Homo septens cDNA clone IMAGE:2228988 3' similar to TR:Q14048 Q14048 COLLAGEN VI ALPHA-2 ALTERNATIVE C-TERMINAL DOMAIN. [1]; contains element PTR5 repetitive
2682			2.84	1.2E-01	.1.	EST_HUMAN	element:
· 2798	16355	27775	1.49	1.2E-01		TN	Human E1A enhancer binding protein (E1A-F) mRNA, pertial cds
2855			1.76	1.2E-01 AI	AI720470.1	EST_HUMAN	as80c09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2338024 3' similar to gb:L05095 60S RIBOSOMAL PROTEIN L30 (HUMAN);
2888			3.38	1.2E-01	1.2E-01 M16364.1	LN L	Human creatine kinase-B mRNA, complete cds
2961			0.89	1.2E-01		FN	Wheat mRNA for a group 3 late embryogenesis abundant protein (LEA)
3189	ı	28164	2.28	1.2E-01	1.2E-01 AW370668.1	EST_HUMAN	QV1-BT0259-261099-021-d05 BT0259 Hamp sapiens cDNA
3218			0.91	1.2E-01	1.2E-01 U67600.1	Z	Methanococcus Jannaschii section 142 of 150 of the complete genome
3328	$_{\perp} floor$	28298	2.33	1.2E-01	1.2E-01 AW503374.1	EST_HUMAN	UI-HF-BN0-akw-a-10-0-UI,r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078427 5'
3454]		0.78	1.2E-01		LN	Bacillus subtilis complete genome (section 15 of 21); from 2795131 to 3013540
3502		28466	0.85	1.2E-01	X56882.1	NT	Wheat mRNA for a group 3 late embryogenesis abundant protein (LEA)
3502			0.85	1.2E-01	1.2E-01 X58882.1	TN	Wheat mRNA for a group 3 late embryogenesis abundant protein (LEA)
3900			66:0	1.2E-01	1.2E-01 Z99118.1	TN	Bacillus subtilis complete genome (section 15 of 21); from 2795131 to 3013540
4198		29110	2.16	1.2E-01	Z54255.1	NT	P.clarkil mRNA; repeat region (ID 2MRT7)
4198	\Box	29111	2.16	1.2E-01	14255.1	NT	P.clarkii mRNA; repeat region (ID 2MRT7)
4333			0.64	1.2E-01 M		LN	Chicken neural cell-adhesion molecule (N-CAM) gene, exon 19
4772	- 1		0.98	1.2E-01	1.2E-01 Z48183.1	L	L.esculentum mRNA for glyoxalase-I
5209	١.		1.01	1.2E-01		SWISSPROT	HEMOLYSIN PRECURSOR
6288	- 1		1.69	1.2至-01	18.2	LN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 30
5434	⊥	30282	1.02	1.2E-01 Q10441	Q10441	SWISSPROT	HYPOTHETICAL 52.4 KD PROTEIN C12810.08C IN CHROMOSOME I
8 8			1.02	1.2E-01	1.2E-01 Q10441		HYPOTHETICAL 62.4 KD PROTEIN C12B10.08C IN CHROMOSOME I
5483	17978	30322	0.68	1.25.01	AW892592.1	EST_HUMAN	CM3-NN0004-100300-111-d08 NN0004 Homo saplens cDNA

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	. Top Hit Descriptor
5500	18091	30332	0.7	1.2E-01 A	AA744369.1	EST_HUMAN	ny63004.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clans IMAGE:1282950 3'
5553	18143	30503	0.76	1.2E-01	1.2E-01 AF223391.1	Ŋ	Homo saplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
5563	18152	30513	2.53	1.2E-01	1.2E-01 W33035.1	EST HUMAN	2c08d02.r1 Soares, parethyrold, tumor, NbHPA Homo septems cDNA clone IMAGE:321699 5:
5624		30612	1.31	1.2E-01	298266.1	N	Homo saplens gene encoding plakophilin (exons 1-13)
5767			1.03	1.2E-01	1.2E-01 Z48234.1	NT	M.domestica Borkh. Granny Smith adh mRNA for alcohol dehydrogenase
6514	19067	31810	2.1	1.2E-01	1.2E-01 BE620945.1	EST_HUMAN	601493518F1 NIH_MGC_70 Homo saplens cDNA clone IMAGE:3895613 5
6269			0.8	1.2E-01 P	P10842	SWISSPROT	MATING-TYPE P-SPECIFIC POLYPEPTIDE PI
6626				1.2E-01	AW845275.1	EST_HUMAN	IL0-CT0031-221099-113-e04 CT0031 Homo saplens cDNA
6698				1.2E-01	M26926.1	Z.	Mouse galactosytransferase mRNA, complete cds
6770			99:0	1.2E-01	1.2E-01 AA747636.1	EST_HUMAN	m85c01.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:12690243'
7011	19547		1.45	1.2E-01	1.2E-01 BF347985.1	EST HUMAN	602023112F1 NCI_CGAP_Brn67 Homo septens cDNA clone IMAGE:4158386 5
7184			0.49	1.2E-01 AF	AF295739.1	LN	JC virus agnoprotein, VP2, VP3, VP1, large T antigen, and small tantigen genes, complete cds
7435	19939	32773	0.42	1.2E-01 H4	H47799.1	EST HUMAN	yp80f04.rf Soares fetal liver spleen 1NFLS Hamo septems cDNA clame IMAGE-193759 F
7435	19939	32774	0.42	1.2E-01 H4	H47799.1	EST_HUMAN	yp80f04.r1 Soares fetal liver spleen 1NFLS Hamo sapiens cDNA clane IMAGE:183759 5
8121	20545	33422	. 0.74	1 2F-01	1 2F-01 A 1271741 4	H	Homo saplens partial ILF3 gene for interleukin enhancer binding factor 3 (alternative transcripts drbp76,
8391	20805			1 2F-01	1 2F-01 D87458 1	LNT.	Himan mRNA for KIAA0282 amo notal ode
8391	20805			1.2F.01	1.2F-01 D87458 1	Į.	Himan mRNA for KIA 40282 some south out
8459				1.2E-01	1.2E-01 BE728489 1	FST HIMAN	601561838F1 NIH MGC 20 Homo centers ANA close MACE-2024 265 21
8459	20872	33773		1.2E-01	1.2E-01 BE728489.1	EST HIMAN	601561838F1 NIH MGC 20 Homo canions ANA Alma MAGE-383488 E1
8555	20880		1.45	1.2E-01	1.2E-01 BE007072.1	EST HUMAN	PM3-BN0137-290300-002-(09 BN0137 Homo saniens cDNA
8604	21039	33944	3.19	1.2E-01	1.2E-01 AI913753.1	EST_HUMAN	wc89g03.x1 NCI_CGAP_Cc3 Home sepiens cDNA clone INAGE:2326804.3' similar to SW:GST2_HUMAN Q89735 MICROSOMAL GLUTATHIONE S-TRANSFERASE II
8930	21364		11.32	1.2E-01	1.2E-01 AW083652.1	EST HUMAN	xx48407.x1 NCI_CGAP_Esc2 Homo saplens cDNA clone IMAGE:2587697 3' sImilar to gb:M13452 LAMIN A (HUMAN):
8943	21378		4	10,10	1 2E.04 A EDE2773 4	ļ L	Staphylococous aureus plasmid pSK23 putative recombinase Sin (sin) gene, pertial cds; and transcriptional
8968	21401	34313	0.98	1.2E-01	1.2E-01 J03958 1	TN	N crassa vacinilar ATPasa 57.Kd suhunit (mas 2) mana chambia 24.
8968	21401		0.98	1.2E-01		NT	N crassa vacuolar A TP asa 67-Kd submit (vma.2) nana complete cde
9071	21503		1.08	1.2E-01	7.	NT	Homo saplens Xq pseudoautosomal region: segment 2/2
9128	21560			1.2E-01			Haemophilus Influenzae Rd section 29 of 163 of the camplete genome
9747	22115	35043	1.87	1.2E-01	1.2E-01 X77981.1	NT	S.ceravisiae HXT5 gene

Exan NO: NO: SEQ ID NO: SEQ ID NO: SEQ ID NO: SEQ ID NO: SEQ ID SEQ I		
36386 1.6 1.2E-01 AV710857.1 EST_HUMAN 36927 2.27 1.2E-01 BF314481.1 EST_HUMAN 36927 2.27 1.2E-01 BF314481.1 EST_HUMAN 36465 3.72 1.2E-01 BF314481.1 EST_HUMAN 36583 1.64 1.2E-01 BF314481.1 EST_HUMAN 36583 1.64 1.2E-01 AF190493.1 NT 2.08 1.2E-01 AV658033.1 EST_HUMAN 36465 3.38 1.2E-01 AV658033.1 EST_HUMAN 36460 2.04 1.2E-01 AV658033.1 EST_HUMAN 3657 7.72 1.2E-01 AV67818.1 EST_HUMAN 26568 1.07 1.1E-01 AV658000.1 EST_HUMAN 26671 1.07 1.1E-01 AV658000.1 EST_HUMAN 26671 1.07 1.1E-01 AV658000.1 EST_HUMAN 26671 1.07 1.1E-01 AV678188.1 EST_HUMAN 26671 1.07 1.1E-01 AV678000.1 EST_HUMAN 2677 2.32 1.1E-01 AV872188.1 EST_HUMAN 2677 2.32 1.1E-01 AV872188.1 EST_HUMAN 27959 0.88 1.1E-01 AV821909.1 EST_HUMAN 27959 0.88 1.1E-01 AV821		
36527 2.27 1.2E-01 BF314481.1 EST_HUMAN 2.06 1.2E-01 D26184.1 NT 2.47 1.2E-01 BE962324.2 EST_HUMAN 36465 3.72 1.2E-01 BF314481.1 EST_HUMAN 36583 1.64 1.2E-01 AV658033.1 EST_HUMAN 2.208 1.2E-01 AV658033.1 EST_HUMAN 2.208 1.2E-01 AV658033.1 EST_HUMAN 30450 2.04 1.2E-01 AV65803.1 EST_HUMAN 30450 2.04 1.2E-01 AV65803.1 EST_HUMAN 30450 1.77 1.2E-01 AV65803.1 EST_HUMAN 30450 1.72 1.2E-01 AV6500.1 EST_HUMAN 25568 1.07 1.1E-01 AV6500.2 NT 25608 1.92 1.1E-01 AV6500.2 NT 26071 1.1E-01 AV6500.2 NT 26173 4.68 1.1E-01 AV6500.2 NT 26173 4.68 1.1E-01 AV6500.2 NT 26571 1.9 1.1E-01 AV6500.1 EST_HUMAN 26771 1.9 1.1E-01 AV6500.1 EST_HUMAN 26571 1.1E-01 AV6500.2 NT 27650 0.83 1.1E-01 AV6500.1 EST_HUMAN 2774 1.1E-01 AV6500.1 EST_HUMAN 2775 1.1E-01 AV6500.1 EST_HUMAN 2775 1.1E-01 AV6500.1 EST_HUMAN 2776 0.8 1.1E-01 AV6500.1 EST_HUMAN 2777 1.1E-01 A		
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13152 25568 1,07 1,1E-01 Al561003.1 EST_HUMAN 13198 25605 1,32 1,1E-01 A669006.1 EST_HUMAN 13626 1,82 1,1E-01 BF697308.1 EST_HUMAN 13636 1,61 1,1E-01 AN972158.1 EST_HUMAN 15303 28173 4,68 1,1E-01 AN972158.1 EST_HUMAN 14076 26537 1,3 1,1E-01 AN972158.1 EST_HUMAN 14718 1,71 1,1E-01 AN972158.1 EST_HUMAN 15270 2,32 1,1E-01 AN92158.1 EST_HUMAN 15270 3,86 1,1E-01 AN921909.1 EST_HUMAN 15570 0,8 1,1E-01 AN921909.1 EST_HUMAN 15680 0,8 1,1E-01 AN921909.1 EST_HUMAN 15680 1,1E-01 AN921909.1 EST_HUMAN 15680 1,1E-01 AN921909.1 EST_HUMAN 15680 1,1E-01 AN921909.1 EST_HUMAN	E004428.1	
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14076 26537 2.32 1.1E-01 AU140363.1 EST_HUMAN 14718 1.71 1.1E-01 6755215 NT 15270 3.86 1.1E-01 6978676 NT 14982 0.9 1.1E-01 AW821909.1 EST_HUMAN 15547 27959 0.83 1.1E-01 F03265.1 EST_HUMAN 15882 1.1E-01 AW821909.1 EST_HUMAN	NT.	
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15270 3.86 1.1E-01 6978676 NT 14982 0.9 1.1E-01 AW821909.1 EST_HUMAN 15547 27959 0.83 1.1E-01 F03265.1 EST_HUMAN 15862 1.71 1.1E-01 F03265.1 EST_HUMAN		
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15872 27959 0.83 1.1E-01 F03265.1 EST_HUMAN	W821909.1 EST_HUMAN	
158321 1 7 1 1 1 1 E 01	EST_HUMAN	
IN 162670 10-21:1	6753231 NT Mus musculus calcium channel, voltage-dependent, T type, alpha 1G subunit (Cacnatg), mRNA	

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	_	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3386			2.7	1.1E-01	BE393186.1	EST_HUMAN	601308679F1 NIH MGC 44 Homo saplens cDNA clone IMAGE:3627066 5'
3429	15973	28386	1.38	1.1E-01	X62135.1	NT	C.reinhardtii nuclear gene on linkage group XIX
3467	16011	28433	0.7	1.1E-01	R96946.1	EST HUMAN	vy82g08.s1 Soares fatal liver spleen 1NFLS Homo sepiens oDNA clone IMAGE:200414 3' similar to contains. Alu repetitive element:
3574	,		0.98	1.1E-01	_	LN	A.Immersus gene for transposase
3698			0.67	1.1E-01	P97384	SWISSPROT	ANNEXIN XI (CALCYCLIN-ASSOCIATED ANNEXIN 50) (CAP-50)
3706	J		1.29	1.1E-01	X52708.1	N	G.gallus gene encoding non-histone chromosomal protein HMG-14b, exons 4 and 5
4127		29039	1.21	1.1E-01	AW819412.1	EST_HUMAN	MR3-ST0290-290100-025-007 ST0290 Homo saplens cDNA
4127		29040	1.21	1.1E-01	AW819412.1	EST_HUMAN	MR3-ST0290-290100-025-g07 ST0290 Homo saplens cDNA
4269			10.12	1.1E-01	AF157066.1	N	Drosophila melanogaster Idarsicht protein (Idar) mRNA, complete cds
4303	_	٠	0.72	1.1E-01	AW802056.1	EST HUMAN	L5-UM0070-020500-068-e08 UM0070 Homo saplens cDNA
4888	17400	29771	1.68	1.1E-01	Y07695.1	N	A.immersus gene for transposase
							Mus musculus major histocompatibility locus class III region:butyrophilin-like protein gene, partial cds; Notch4, PBX2, RAGE histophilific acid acid fransferase alpha palmimus protein the protein the partial cds;
5125	16662		0.69	1.1E-01	AF030001.1	NT	CREB-RP, and tenascin X (TNX) genes, complex
6203	17708		1.18	1.1E-01	AF002726.1	TN	Trigona necrophaga cytochrome b (cytb) gene, mitochondrial gene encoding mitochondrial protein, nartial cde
5030	18517		,	76	_ '		rx76a03.s1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1268140 similar to contains Alu repetitive
6015	1	31275	1, 53	1.15.01	AA/4/210.1	ES HOMAN	element;contains element MEK35 repetitive element;
6054	L	31317	26.0	1	A1 44000E 4	E L	o nomo sapiens diacyglycerol Kinase 3 (UACK3) gene, exon 6
0609		31352	07.0	1 1 5 01	AL 1 10903.1	NI ERT LIMANI	Bongstarzera NC CAR Bongst Under conditions of mitrogen deprivation
0609		31353	0.79	1.1E-01	BF339519.1	EST HUMAN	602039176F1 NCI CGAP Brief Home sapiens CDNA clane IMAGE:418818 5
6122		31388	1.9	1.1E-01)	(68851.1	TN	S.pombe ste8 gene encoding protein kinase
6159	\perp	31430	4.77	1.1E-01	M86533.1	NT	Providencia retigeri penicillin G amidase gene
833	_1	31619	1.49	1.1E-01	J007973.1	LN.	Homo sapiens LGMD2B gene
6352	┙	31643	1.52	1.1E-01 B	E769152.1	EST_HUMAN	PM3-FT0024-130600-004-f12 FT0024 Hamo saplens cDNA
6372		31666	9.4	1.1E-01		EST_HUMAN	RC3-CT0254-280999-011-e01 CT0254 Homo septens cDNA
6763	┙	32071	0.63	1.1E-01		TN	Homo sapiens chromosome 21 segment HS21C082
8771	_	32081	1.38	1.1E-01	F035746.1	EST_HUMAN	AF035746 Human salivary gland cell line HSG Homo sapiens cDNA clone RL43
6818	_]	32136	0.82	1.1E-01	1216307.1	EST_HUMAN	qg76d06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1841099.3'
6965		32280	3.57	1.1E-01 O	69635	ISSPROT	ACETYL-COENZYME A SYNTHETASE (ACETATE-COA LIGASE) (ACYL-ACTIVATING ENZYME)
7076			2.82	1.1E-01 A	F032922.1		Homo sapiens syntaxin 4 binding protein UNC-18c (UNC-18c) mRNA, complete cds
7180	19893	32718	2.53	1.16-01	11432372 NT	NT	Homo saplens phosphatidylinositol glycan, class B (PIGB), mRNA

Top Hit Descriptor	Ursaplasma ursalyticum section 58 of 59 of the complete genome	Ureaplasma urealyticum section 58 of 59 of the complete genome	601816524F1 NIH MGC 66 Homo sapiens cDNA clone IMAGE:4050653 5'	Pyrococcus horikoshii 073 aenomio DNA, 1166001-1485000 nt nosition (6/7)	802140976F1 NIH MGC 48 Homo saplens CDNA clone IMAGE-4302019 5'	602140976F1 NIH MGC 46 Homo sapiens cDNA clone IMAGE:4302019 6	ou44g03.s1 Soares NFL T GBC S1 Homo sablens cDNA clone IMAGE:1628172.31	TRAB PROTEIN	Schizosaccharomyces pombe gene for Alb13, complete cds	B.subtilis gene encoding hypothetical polyketide synthese	eh31b08.s1 Soares_parathyrold_tumor_NbHPA Homo sepiens cDNA clone 1240403 3' similar to gb:J03483	601470055F1 NIH MGC 67 Homo sanlens cDNA clone IMACE-3873220 F	Methanococcus Januaschii section 34 of 150 of the complete genome	nh04g10.s1 NCI CGAP Thv1 Homo seniens cDNA clone IMAGE-parase?	nh04g10.s1 NCI_CGAP_Thv1 Homo septems cDNA clone IMAGE-passes	H.saplens II.15 dene	PM1-ST0270-080200-001-09 ST0270 Homo saplens cDNA	DKFZp547P194_r1 547 (synonym: hfbr1) Homo saplens cDNA clone DKFZp547P194 6'	Pediococcus acidilactici H plasmid pSMB74 pediocin AcH production (pap) gene cluster papA, papB, papC and papD genes, complete cds	w448c01.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA done IMAGE:2358816 3' similar to contains Alu	repetitive element;	zp93b12.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:627743 5	zp93b12.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:627743 5	yd19h03.s1 Soares fetal liver spieen 1NFLS Homo septens cDNA clone IMAGE:108725 3' similar to chM81181 SODII IMIPOTASSII IAL TBANSDODTING ATDASS BETA A CHIMANAL	CM3-HT0142-271099-028-011 HT0142 Homo saniens oDNA	MR2-GN0027-040900-005-a08 GN0027 Homo septemb cDNA	y98a09.s1 Scares placenta Nb2HP Homo saplens cDNA clone IMAGE:147084.31	Ceratitis capitata yoyo retrotransposon gaq-like, pol-like and envulike genes, complete cels	HSC1RF022 normalized infant brain cDNA Homo sapiens cDNA clone c-1rf02 3'	Cerassius auratus activin beta A precursor, mRNA, complete cds
Top Hit Database Source	NT.	NT	EST HUMAN	11	EST HUMAN	EST HUMAN	Г	Π	NT	LN LN	TOT LIBAAN	Т	Т	T HUMAN	1	Т	T HUMAN			<u>}</u> .			EST_HUMAN	FST HIMAN	Т	Т	Г	Т	T_HUMAN	NT.
Top Hit Acession No.	AE002166.1	1.1E-01 AE002155.1	1.1E-01 BF382758.1	1.1E-01 AP000006.1	3F684628.1	1.1E-01 BF684628.1	1.1E-01 AA995908.1	241087	\B015294.1	1.1E-01 Z14098.1	14788784 1	1.1E-01 BE782290.1		-	1.1E-01 AA493574.1	(91233.1	NW817918.1	1.1E-01 AL134349.1			1807474.1	1.1E-01 AA192153.1	1.1E-01 AA192153.1	72675.1	1.1E-01 BE142305.1	1.1E-01 BF085149.1				-169032.1
Most Similar (Top) Hit BLAST E Value	1.1E-01	1.1E-01	1.1E-01	1.1E-01	1.1E-01 BI	1.1E-01	1.1E-01	1.1E-01 P41067	1.1E-01	1.1E-01	1 1F-01	1.1E-01	1.1E-01 U67492.1	1.1E-01	1.15-01/	1.1E-01 X91233.1	1.1E-01	1.1E-01 /	1.1E-01 U02482.1	-	1.1E-01 AI	1.1E-01 /	1.1E-01/	1.1E-01	1.1E-01	1.1E-01	1.1E-01 R80590.1	1.1E-01 U60529.1	1.1E-01 F03265.1	1.1E-01 A
Expression Signal	0.64	0.64	0.71	1.05	9.11	9.11	9.0	2.33	0.44	0.71	2.84	0.56	1.01	1.76	1.78	1.15	0.93	1.81	1.72		0.94	2.7	2.7	2.65	1-1	2.68	2.11	1.38	1.89	3.31
ORF SEQ ID NO:	32478	32479		33072	33351		33408				33545	33726	33948		34122	34157		34237	34569		34830	34713	34714	34800				35630	27959	
Exan SEQ ID NO:	19682	19082		24636			20531		_	20653	20654				21217			21325	21660		_[┙	21804	21881			$-\mathbf{i}$		╛	23139
Probe SEQ ID NO:	7478	7478	7631	99//	8046	8046	8105	8186	8195	8234	8235	8414	8608	8783	8783	8817	8847	8891	9228		9288	8372	8372	9450	9635	0696	10181	10266	10588	10700

						,	
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10745	23183		1.97	1.1E-01	1.1E-01 028279	SWISSPROT	CGMP-GATED CATION CHANNEL PROTEIN (CYCLIC NUCLEOTIDE GATED CHANNEL, PHOTORECEPTOR) (CYCLIC-NUCLEOTIDE-GATED CATION CHANNEL 1) (CNG CHANNEL 1) (CNG-1) (CNG-1)
10825	23261	36246	3.31	1.1E-01	R23708.1	EST HUMAN	M35f12.rl Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:131759 6' similar to contains Alu repetitive element contains TAR1 repetitive element.
10983		36424	2.79	1.1E-01	1.1E-01 Z11910.1	LN	Z.mobilis tgt and lig genes encoding tRNA guanine transglycosylase and DNA linase
10983		36425	2.79	1.1E-01	1.1E-01 Z11910.1	NT	Z.mobills tgt and lig genes encoding tRNA guanine transgivcosylase and DNA ligase
11075	i	36528	4.61	1.1E-01	1.1E-01 P17437	SWISSPROT	SKIN SECRETORY PROTEIN XP2 PRECURSOR (APEG PROTEIN)
11516		36954	1.78	1.1E-01	1.1E-01 AF207568.1	N	Brassica napus 4-coumarate: CoA ligase (4CL-C) gene, partial cds
11685		•	1.25	1.1E-01	1.1E-01 AA192153.1	EST HUMAN	293512.r1 Stratagene muscle 937209 Homo seplens cDNA clane IMAGE:627743 6
11805			3.25	1.1E-01	1.1E-01 BE767023.1	EST_HUMAN	RC2-NT0112-120600-014-t03 NT0112 Homo saplens cDNA
12067			2.18	1.1E-01	1.1E-01 BE974556.1	EST HUMAN	601680551R2 NIH MGC 83 Homo seplens cDNA clone IMAGE 3850804 31
12286			1.28	1.1E-01	1.1E-01 BE966888.2	EST HUMAN	601660905R1 NIH MGC 72 Homo sapiens cDNA clone IMAGE:3915744 3'
12537	24528	30861	5.51	1.1E-01	BF239753.1	EST HUMAN	601806350F1 NIH MGC 54 Homo septems cDNA clone IMAGF-4134085 51
1232	13771		1.21	1.0E-01	082855	SWISSPROT	DEOXYRIBONUCLEASE II PRECURSOR (DNASE II) (ACID DNASE) (LYSOSOMAL DNASE II)
1305	13840	OBCAC	27.0	Lov	, 007,10014		ws08d01x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2496577 3' similar to contains MER7.33
1424	L	28443	2 50	1.0E-01.A	A1803489.1	ESI HUMAN	MEKY repetitive element;
0000	L	21.5	2.09	10-30.1	1.0E-01 ALIBI304.2	Z	Arabidopsis malaha UNA chromosome 4, contig fragment No. 16
2402	14890	2/414	3.6	1.0E-01	1.0E-01 AW451365.1	EST_HUMAN	UI-H-Bi3-alc-d-07-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736420 31
2747	L	10407	4	1.0E-01	1.0E-01 Br033891.1	EST_HUMAN	601456301F1 NIH_MGC_66 Homo sepiens cDNA clone IMAGE:3859849 5'
71.76	L	19987	0.81	1.0E-01	1.0E-01 BF239818.1	EST_HUMAN	601906489F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4134071 5'
7080	L	28970	3.03	1.05-01	1.0E-01 BF365703.1	EST_HUMAN	QV2-NT0048-160800-316-605 NT0048 Homo saplens cDNA
1504	\perp	05657	5 G	1.0E-01	1.0E-01 AE002285.2	IN	Chiamydophila pneumoniae AR39, section 91 of 94 of the complete genome
4782	L	00000	0.05	1.0E-01	1.0E-01 AI/92349.1	EST_HUMAN	en3204.y5 Gessler Wilms turnor Homo sapiens cDNA clone IMAGE:1700358 5
3 2	1	00007	1.32	1.0E-01 U		L	Drosophila melanogaster tyrosine kinase p45 isoform (far) mRNA, complete cds
4980		78887	2.31	1.0E-01		EST_HUMAN	EST364414 MAGE resequences, MAGB Homo sapiens cDNA
CR7C	_L	30162	5.98	1.0E-01		NT	Homo saplens chromosome 21 segment HS21C079
5329		30187	0.62	1.0E-01	1.0E-01 BE389100.1	EST_HUMAN	601286969F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613552 5
5428			5.14	1.0E-01 A	AV763960.1	EST_HUMAN	AV763960 MDS Homo septens cDNA clone MDSBQB11 5'
5574			10.08	1.0E-01	1.0E-01 W86490.1	EST_HUMAN	과62h04.s1 Soares fetal liver spleen 1NFLS S1 Homo saplens cDNA clone IMAGE 416895 3*
5874			0.57	1.0E-01	1.0E-01 X54015.1	NT	X campestris genes for sensor and regulator protein
5757	_1		0.44	1.0E-01 Q36860		SWISSPROT	CYTOCHROME C OXIDASE POLYPEPTIDE III
6168	_ [1	1.22	1.0E-01		LN	Homo sapiens mRNA for FLJ00065 protein, partial cds
6328	18887	31618	14.41	1.0E-01	1.0E-01 AF274875.1	IN	Homo sapiens growth factor receptor-bound protein 7 (GRB7) gene, complete cds

			T	T	Т	T	T	Т	Τ	T	T	Т	T	T	T	T	T	T	Ī	T.	Τ	T	T	Ţ	Т	T	T	T	Τ	T
	Top Hit Descriptor	zx41910.s1 Scares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:756258 3' similar to contains L1.t3 L1 repetitive element :	2u67c12.s1 Soares, testis_NHT Homo saplens cDNA clone IMAGE:743062 3'	yh34h06.11 Soares placenta Nb2HP Homo sepiens cDNA clone INAGE.131675 6' similar to contains Alu repetitive element:	M.muscutus whn gene	Bos taurus mRNA for b17.2 subunit of NADH:ubtaulhone oxidoreductase commex (commiss I)	Bos taurus mRNA for b17.2 subunit of NADH:ubiquinone oxidoreductase complex (complex I)	209b01.x1 NCI_CGAP_U4 Homo saplens cDNA clone IMAGE:2675689 3' similar to gb:X17208 40S RIBOSOMAL PROTEIN S4 (HUMAN):contains TAR1 is TAR1 remailing element:	Rattus norvegicus synaptic SAPAP-interacting protein Synamon mRNA, complete cds	Human pro-abha-1 (V) collagen mRNA, complete cds	Helicobactar pviori, strain J99 section 62 of 132 of the complete genome	601905661F1 NIH MGC 54 Homo sapiens cDNA clone IMAGE-4133487 5	Homo seplens mRNA for KIAA1579 protein, partial cds	Homo saplens mRNA for KIAA1579 protein, pertial cds	EST369615 MAGE resequences. MAGE Homo sapiens cDNA	601584604F1 NIH MGC 7 Homo seplens cDNA clone IMAGE 3639096 51	801877703F1 NIH MGC 55 Homo sepiens cDNA clone IMAGE 4106089 8"	601877703F1 NIH MGC 65 Homo sepiens cDNA clone IMAGE:4105089 5	601582558F1 NIH_MGC_7 Homo saplens cDNA done IMAGE:3836734 57	Escherichia coii 0167:H7 canomic DNA promera (Sakal.VC1)	AV849035 GLC Homo septens CDNA clone GL CRPG01 3'	AV849035 GLC Homo sapiens cDNA clone Gl CRPGn13'	601085654F1 NIH MGC 10 Homo sepiens cDNA clone IMAGE:3451833 61	Drosophila melanogaster fiz gene	Gonvaulax bolyedra butative type-1 serine/threoning phosphalase (PP1) mRNA complete As	801065554F1 NIH MGC 10 Homo sapiens cDNA clone IMAGE:2451033 5'	QV4-HT0401-211289-064-a03 HT0401 Homo saniens cDNA	Saccharomyces cerevisiae suppressor of ABF1 (SAB2) gene, complete cds	Bacillus halodurans genomic DNA, section 1/14	Drosophila melanogaster cAMP-dependent protein kinase type II regulatory subunit (pka-RII) mRNA, complete cds
2	Top Hit Database Source	EST HUMAN	EST_HUMAN	EST HUMAN	N IN	¥	¥	EST HUMAN	Z	Į.	1Z	EST HUMAN	N	노	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	ΤN	EST HUMAN	EST HUMAN	EST HUMAN	NT.	N.	EST HUMAN	EST HUMAN	L	LN.	NT
	Top Hit Acession No.	AA481879.1	AA406039.1	R23821.1	Y12488.1	AJ011400.1	AJ011400.1	AW189797.1	AF102855.2	M76729.1	AE001501.1	BF240154.1	AB046799.1	AB046799.1	AW957425.1	BE792750.1	BF242946.1	BF242946.1	BE790543.1	AP000400.1	AV649035.1	AV649035.1	BE537719.1	X00854.1		-			№001507.1	
	Most Similar (Top) Hit BLAST E Value	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	9.9E-02
	Expression Signal	1.05	9.0	1.69	2.59	0.63	0.53	1.08	1.11	2.2	3.16	1.89	9.84	9.84	6.0	1.14	2.77	2.77	5.78	2.42	3.03	3.03	3.86	1.84	2.85	3.48	1.54	18.35	8.09	3.62
	ORF SEQ ID NO:	31961	31976				33723		34817			35254		35346		32625	36227		36573			36928								27740
	Exan SEQ ID NO:	19213	19227	19950	20703	20825	20825	21430	21895	22108	22057	22310	22394	22394	22547	22663	23244	23244	23535	23643	23876	23876	24428	24218	24900	24426	24465	24870	24516	15228
	Probe SEQ ID NO:	6665	6299	7447	8287	8411	8411	8997	9464	9696	9730	8086	8882	8882	10148	10262	10808	10808	11154	11278	11518	11518	11791	12048	12350	12383	12431	12448	12614	2738

	_							_		_	_	_	_	_	_	_		_				_	<u> </u>	_	_	_		_		
Top Hit Descriptor	601070219F1 NIH_MGC 12 Homo saplens cDNA clone IMAGE:2456365 5'	601070219F1 NIH_MGC_12 Homo saplens cDNA clone IMAGE:3456385 57	Homo saplens neurexin III-alpha gene, partial cds	2445c03.x5 Soares overy furnor NbHOT Homo sepiens cDNA clone IMAGE:740932.3	7477c12x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278998 3	601504252F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3906084 5'	Aspergillus terreus BSD mRNA for blasticidin S dearninase, complete cds	Mus musculus phospholipid transfer protein (Pltp.), mRNA	O.sativa RAmy3C gene for alpha-amylase	Daucus carota feucoanthocyanidin dioxygenase 2 (LDOX) mRNA, LDOX-2 allele, complete cds	Leptosphaeria maculans beta-fubulin mRNA, complete cds	Leptosphaeria maculans beta-tubulin mRNA, complete cds	Human HPTP delta mRNA for protein tyrosine phosphatase delta	Human laminin B1 chain gene, exon 26	601460793F1 NIH MGC 68 Homo saplens cDNA clone IMAGE:3864287 5	Rattus norvegicus microtubule-associated protein tau (Mapt), mRNA	Homo sepiens fibroblast growth factor receptor 3 (achondroniasia themstonhoris dwarfism) (EGER3) mRNA	QV1+HT0518-070300-095-a04 HT0518 Home sentens cONA	CELL SURFACE A33 ANTIGEN PRECURSOR (GLYCOPROTEIN A33)	Caulobacter crescentus thymydliete kinase (tmk) and DNA polymerase III delta prime subunit (dnaC) genes, complete cds	Caulobacter crescentus thymydliate kinase (tmk) end DNA polymerase III delta prime subunit (dnaC) genes,	E91366546 MAGE resequences MAGC Homo saniens cONA	Bacillus subtilis complete genome (section 16 of 21) from 2007771 to 22/2440	yw41c03.81 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE-254758.3	yw41c03.s1 Welzmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:254788 3	wx78b08.x1 NCI_CGAP_Ov38 Homo saplens cDNA done IMAGE:2549747 3' similar to gb:X62861_ma1	Mis misculing Inelia (1 oh) mBNA metial ode	Proteins mitabilis firmhful charm strain HI430	EST378303 MAGE resenuences, MAGI Homo seniens citiva	as38d02.x1 Barstead aorta HPLRB6 Homo saplens cDNA clone IMAGE:2319459 3'
Top Hit Database Source	EST HUMAN	EST HUMAN	Z	EST HUMAN	EST HUMAN	EST_HUMAN	L'N	FZ	LN	N	LN	Ę	LN L	TN	EST HUMAN	N	N	EST HUMAN	SWISSPROT	Į.	F	EST HUMAN	LN LN	EST HUMAN	EST_HUMAN	MALA HOD	TOWN TO	IN	EST HUMAN	EST_HUMAN
Top Hit Acession No.	BE545554.1	BE545554.1	AF099810.1	AI821637.1	BE674249.1	BE613498.1	D83710.1	6765111 NT	X56338.1	AF184274.1	AF257329.1	AF257329.1	X54133.1	M61943.1	BF037421.1	8393751 NT	4503710 NT	3E168660.1	299795	AF099189.1	AF099189 1				V22798.1	1052004 4			5	
Most Similar (Top) Hit BLAST E Value	9.9E-02	9.9E-02	9.9E-02	9.9E-02	9.9E-02	9.9E-02	9.9E-02	9.8E-02	9.8E-02	9.8E-02	9.8E-02	9.8E-02	9.8E-02	9.8E-02	9.8E-02	9.8E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	0 75 00	9.7E-021	9.6E-02	9.6E-02	9.6E-02/
Expression Signal	1.45	1.45	1.11	99.0	0.91	0.62	7.8	1.61	1.61	3.98	12.98	12.98	1.02	1.14	1.78	1.63	66.0	1.81	3.99	0.7	7.0	1.91	4.78	1.33	1.33	4	1.85	6.95	1.2	5.6
ORF SEQ ID NO:	27748	27749						34907			29151				35837			27201		30551	30652	31605	33065		33963	34506		29270		
Exan SEQ ID NO:				'	ľ		1		13151	15658	16766	16766	1	21978	22863	24036	14134	14878	16531	18187	18187	18878	20203	21055	21055	21685	23388	16889	17612	17936
Probe SEQ ID NO:	2745	2745	3228	3962	4727	7263	7386	9518	580	3105	4241	4241	7982	9515	11211	11755	1603	2164	3697	5589	5599	6318	6922	8620	8820	9253	10969	4367	6103	5441

Table 4
Single Exon Probes Expressed in Lung

						200	Rima III posso in the same in
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E	Top Hit Acession No.	Top Hit Database	Top Hit Descriptor
	:			Value	,		
6414	18971		3.18	9.6E-02	BE910039.1	EST_HUMAN	601498088F1 NIH_MGC_70 Homo saplens oDNA clone IMAGE:3900165 5
8500	20912		0.53	9.6E-02	6678753 NT		Mus musculus lymphocyte antigen 78 (Ly78), mRNA
9726		35079	98.0		AV687898.1	EST HUMAN	AV687698 GKC Homo sapiens cDNA clone GKCAAH02 5'
8947	22349		96.0	9.6E-02		HUMAN	601434080F1 NIH MGC 72 Homo saplens cDNA clone IMAGE:3919363 6
10086		35424	1.25	9.6E-02	AJ243211.1	П	Homo sapiens DMBT1 candidate tumour suppressor gene, exons 1 to 55
10088			1.25	9.6E-02	AJ243211.1	F	Homo saplens DMBT1 candidate tumour suppressor gene, exons 1 to 65
10149			1.69	9.6E-02	AB013985.1	Į.	Antirthinum majus transposon Tam3 pseudogene for transposase (In S-5 copy)
10149		35517	1.69	9.6E-02	AB013985.1	LN L	Antirrhirum majus transposon Tam3 pseudocene for transposase (In S-5 conv)
10215	22616	35584	3.49	9.6E-02	P08174	SWISSPROT	COMPLEMENT DECAY-ACCELERATING FACTOR PRECURSOR (CDSS)
10526		25953	7.85	9.6E-02	Z79702.1	Π	Mycobacterium tuberculosis H37Ry complete genome: segment 102/162
11441	23801	36859	1.69	9.6E-02	AA625755.1	EST HUMAN	2191q01.s1 Soares testis NHT Homo saciens CDNA clone IMAGE-7453923'
12421	24459		1.95	9.6E-02	H14599.1	HUMAN	VM19h03.s1 Soares Infant hain 1NIR Home saniene china IMAGE-MARKS 3.
4118	16648	29034	1.72		5.1	T	CM2-BN0023-050200-087-112 BN0023 Home semiens of NA
6272	17773	30140	10.23		Ī	Τ	Voobersion esculentin nohmalantinmassa isonoruma o hata subunit nassa completa ada
6934	18512	31198	0.83			SWISSPROT	TRANSKETOLASE 2 (TK 2) (TRANSKETO) ASE REI ATEN DROTEIN)
7525	19976	32811	0.48	9.5E-02	AA780728.1	T	BC68809.81 Strategiere felal refine 037200 Homo contone CDMA clans 1444 CE 987728 21
7764	1 20208	33071	5.3	9.5E-02	AB003473 1		Trimeresums flavordridis DNA for phoenholinese A2 inhibiting complete col-
8084	20512	33392	8.48	9.5E-02	AL161538.2		Arabidoosis thaliana DNA chromosoma 4 contro fragment No. 38
8237	18512	31198	0.74	9.5E-02	P51854	TORGRAI	TRANSKETOLASE 2 /TK 2 / TRANSKETOLASE BELATER BESTERN
8547			2.34	9.5E-02	BF035861 1		60145364251 NIH M.C. BR Home sentens CDNA Alma NACE: 3857242 51
8547	20982	33881	2.34			Т	601453642F1 NIH MGC 66 Home centens collaboration MACE 3857242 E1
10470	22920	35898	3.39		Ī	Т	601463642F1 NIH MGC 66 Homo saplens cDNA clone IMAGE 3857243 5
10470		35839	3.39	9.5E-02	BF035861.1	HUMAN	601453642F1 NIH MGC 66 Homo sapiens cDNA clone IMAGE:3857243 5'
1808	14331	26824	2.72	9.4E-02	BF671063.1	EST HUMAN	602150882F1 NIH MGC 81 Homo sapiens cDNA clone IMAGE 4291917 51
3888		28828	5.87	9.4E-02	Z33059.1	Π	M.capricolum DNA for CONTIG MC073
6645			0.76	9.4E-02	AF097363.1	NT.	Triticum aestivum heat shock protein 101 (Hsp101a) mRNA, complete cds
8118	20543	33420	0.61	9.4E-02	L78833.1		Human BRCA1, Rho7 and vati genes, complete cds, and inf35 gene, partial cds
9070	21502		2.68	8.4E-02	Z46863.1	į	Acinethheder an oven onth south loc such and such and south south
10710	20543	33420	2.47				Himan BRCA1 Rhot and vall game complete site and 1-25 - 1-1-1-1-1
11633	L		3.38				Raths novedicis calcium channel alaba 40 cultum; (2009) with a cultural day.
12592	24568	30850	1.41				Himen reakBOT 4 haking CADA Language 1 State 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2844		L	1.83	_	4800280		Homo contano BA14 arcondistral arabaha 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2
2988	L		8 84	0 3E-02	R042E26 INT		Tours against our I-associated protein 3 (BAIAPA) mixinA
			1,2,3	0.vt.ve.	107071 AO		nomo sapiens nasopnaryngeal epithelium specific protein 1 (NESG1), mRNA

Table 4
Single Exon Probes Expressed In Lung

							Burn III posses identification in the control of th
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3217	-		1.88	9.3E-02	BF575511.1	EST HUMAN	602133086F1 NIH MGC 81 Homo sepiens cDNA clone IMAGE:4288269 5'
4169			4.2	9.3E-02	BE391943.1	EST_HUMAN	601286082F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3607653 5'
4169	16696	29085	4.2	9.3E-02	BE391943.1	EST HUMAN	601286082F1 NIH MGC: 44 Homo saplens cDNA clone IMAGE:3607653 5'
4497			2.27	9.3E-02	U88092.1	NT	Ehrlichia sennetsu groE operon: GroES (ESgroES) and GroEL (ESgroEL) genes, complete cds
4786			1.98	9.3E-02	AV732224.1	EST_HUMAN	AV732224 HTF Homo saplens cDNA clone HTFAUA08 5'
5174		30038	0.95	9.3E-02	U38804.1	N	Porphyra purpurea chloroplast, complete genome
5931	ı		0.68		AP001507.1	N	Bacillus halodurans genomic DNA, section 1/14
8465	- 1		0.47		M75984.1	NT	Human hepatocyte growth factor gene exon 18, 3' end
8483	- 1		0.62	ı	AL163210.2	FN	Homo sapiens chromosome 21 segment HS21C010
9843	┙		2.67	9.3E-02	BE982631.2	EST_HUMAN	601655988R1 NIH_MGC 66 Homo sapiens cDNA done IMAGE:3855981 3'
10171	╝		3.25		Q15034	SWISSPROT	HYPOTHETICAL PROTEIN KIAA0032
10171		35539	3.25	9.3E-02	Q15034	SWISSPROT	HYPOTHETICAL PROTEIN KIAA6032
10266			3.96		AW 206117.1	EST_HUMAN	UI-H-BI1-afx-h-05-0-UI.s1 NCI CGAP Sub3 Homo seplens cDNA clone IMAGE:2723553 3'
11912			1.75		AJ249850.1	N	Photobacterium damselae subsp. damselae partial gyrB gene for DNA gyrase B subunit
12314	24748		17.31	9.3E-02	AW 468850.1	EST_HUMAN	hd28h12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:29108873'
							Mus musculus major histocompatibility locus class II region; Fas-binding protein Daxx (DAXX) gene, partial
7		-		_			ods, Bing1 (BING1), tapasin (tapasin), RalGDS-like factor (RLF), KE2 (KE2), BING4 (BING4), beta1, 3-
12340			1.95		3.1	NT	galactosy/ transferese (beta1,3-galactosy/ tr>
240		26262	6.24	9.2E-02		NT	Molluscum contagiosum virus subtype 1, complete genome
240	_	25253	6.24		U60315.1	NT	Wolluscum contagiosum virus subtype 1, complete genome
28		25254	6.24			NT	Molluscum contaglosum virus subtype 1, complete genome
2133		-	1.31	9.2E-02	R54166.1	EST_HUMAN	yg98f07.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:41618 5'
3136	- 1		4.45			SWISSPROT	MAJOR EPIDIDYMIS-SPECIFIC PROTEIN E4 (EPIDIDYMAL PROTEIN BE-20)
3269	- 1	28236	0.72	_	AA534354.1	EST_HUMAN	nf79e01.s1 NCI_CGAP_Cc3 Hamo sapiens cDNA clone IMAGE:926138 3'
3578	٠ ا		1.27	9.2E-02	6755215 NT	NT	Mus musculus pre T-cell antigen receptor alpha (Ptcra), mRNA
4255			1.19	-	U92048.1	FN.	Human herpesvirus 1 strain KOS-83, latency-associated transcript, promoter region
4327			1.41	8.2E-02	BE299722:1	EST_HUMAN	800944385F1 NIH_MGC 17 Homo saplens cDNA clone IMAGE:2980178 6
4684	17200	29578	1.3	9.2E-02	X96402.1		G.gallus Mia-CK gene
8641	21076	33984	200	0.00	T40020 4		ya99c09.r1 Stratagene placenta (#937225) Homo sapiens cDNA clone IMAGE:69808 5' similar to similar to
8760		34096	22		XOFOER 4	אלאוסר - ואלאוט	HIGH WAS INTERESTINATION OF THE PRINTING PROTEIN G(S), ALPHA SUBUNI (HUMAN)
11422	L	36844	1 78	0 25 0	AEAGEES		in conduct a vince and the conduct and the con
12517	上		2.4	9.2E-02.	11488872	L L	Mesocrice its auraius onductin precursor (OVI) gene, complete cds
94	L	25008	2 62	9.45-02	VTTOOE		r cuospota ansenna mitocnondrion, complete genome
	ı	Inna	3.72	שיובייבן.			O. cuniculus K12 keratin gene

				·				_		-	_	-		_	_					-		-	_	_	_	-	
שני בייתון ומתכם דילומספת וו רתום	Top Hit Descriptor	PM2-BT0349-161299-001-f02 BT0349 Homo seplens cDNA	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 54	Homo saplens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G5b, G6d, G6e, G6f, BAT5, G5b, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and LTA genes. complete cds	Homo sapiens chromosome 9 duplication of the T cell receptor bete locus and troostnocen genelles	au74a05,y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781988 5'	Aeropyrum pernik genomic DNA, section 4/7	Mus musculus thymopoletin zata mRNA, complete cds	Homo sapiens gamma adducin gene, exon 9	FB19F10 Fetal brain, Strategene Homo saplens cDNA clone FB19F10 3'end	Tg618=Cyl actin [Tripneustes gratilla=sea urchins, embryos, Genomic, 5275 nt]	Вастеторнаде Mu, complete genome	2938h12.s1 Stratagene muscle 937209 Homo seplens cDNA clone IMAGE:611783 3' similar to SW:TRT3_HUMAN P45378 TROPONIN T, FAST SKELETAL MUSCLE, ISOFORM BETA:	Rattus norvegicus cell cycle protein p55CDC dene. complete cds	Homo saplens partial MUC3B gene for MUC3B mucin, exons 1-11	FOLATE RECEPTOR ALPHA PRECURSOR (FR-ALPHA) (FOLATE RECEPTOR 1) (FOLATE RECEPTOR, ADULT) (ADULT FOLATE-BINDING PROTEIN) (FBP) (OVARIAN TUMOR-ASSOCIATED ANTIGEN MOV18) (KB CELLS FBP)	hv39g10.x1 NCI_CGAP_Lu24 Home saplens cDNA clone IMAGE:3176842 3' similar to contains Alu	repetitive element;	IL5-UM0067-240300-050-h06 UM0067 Homo sepiens cDNA	HIV-1 p8c095-06 from USA envelope glycoprotein (env) gene, partial cds	HIV-1 p8c095-06 from USA envelope glycoprotein (env) gene, partial cds	Dictyostalium discoldeum spore coat structural protein SP65 (cott.) gene, complete cds	corticosteroid-binding globulin [Saimtri sclureus=squirrei monkeys, liver, mRNA, 1474 nt]	corticosteroid-binding globulin [Saimiri sclureus=squirrel mankeys, liver, mRNA, 1474 nt]	Plasmodium falciparum P-type ATPase 3 gene	za68a12.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:287694 5 similar to PIR:S62171 S52171 small G protein - human :	7h63d03.x1 NCI_CGAP_Co16 Homo sepiens cDNA clone IMAGE:3320645.3' similar to contains Alu repetitive element;
מום דייסוו ב וסר	Top Hit Database Source	EST_HUMAN	LN	۲N	FX	EST HUMAN	NT _	IN	TN	EST HUMAN	LN LN	TN	EST_HUMAN	NT	NT	SWISSPROT		EST_HUMAN	EST_HUMAN	NT	IN	IN	NT	NT	L	EST HUMAN	
5	Top Hit Acession No.	AW372569.1	AL161554.2	AF129766.1	AF029308.1	AW160658.1	AP000061.1	U39073.1	Y14379.1	T02984.1	S74059.1	9633494 NT	AA179901.1	AF052695.1	AJ291390.1	P15328	-	BE220482.1	AW801364.1	AF138522.1	AF138522.1	AF279135.1	S68757.1	S68757.1	X65740.2	W56037.1	BF062651.1
	Most Similar (Top) Hit BLAST E Value	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.1E-02	9.0E-02		9.0E-02	9.0E-02	9.0E-02	9.0E-02	9.0E-02	9.0E-02	9.0E-02	9.0E-02	9.0E-02	9.0E-02
	Expression Signal	0.99	1.77	1.26	0.55	13.55	1.15	0.83	1.18	2.54	1.04	2.09	1.89	1.59	7.91	4.51		6.78	2.8	2.94	2.94	1.03	0.61	0.61	1.92	11.35	1.08
	ORF SEQ ID NO:		29416	31266		33168			34635		35713		· ·			25755				27766	27767	\rfloor			29611	31582	
	Exon SEQ ID NO:		17038	18579	24990	20303	20632	20671	21727	22723		23915	24906	24126	24742	13325			_	15251		ı	Į		17227	18860	19627
	Probe SEQ ID NO:	3669	4520	6005	0777	7864	8212	8254	9285	10323	10346	11570	11821	11901	12404	765		1642	2275	2781	2761	3300	4318	4318	4711	6258	7094

		ScS (escS),	, nec									<u> </u>									AFII-130)								-
Top Hit Descriptor	y11b08.s1 Sogres placenta Nb2HP Homo sapiens cDNA clone IMAGE:138903 3'	Escherichia coli strain E2348/69 pathogenicity island, rOrf1 (rorf1), rOrf2 (rorf2), EscR (escR), EscS (escS),	ESCY (85CT), ESCY (890V), CBSJ (GSCY), ESCY (85CV), ESCY (85CY), Sept. (85Pt.), ESCY (85CY), E	602128030F2 NIH_MGC_56 Homo saplens cDNA clone IMAGE:4285951 6'	602128030F2 NIH_MGC_56 Hamo sapiens cDNA clane IMAGE:4285951 51	PM0-HT0339-251199-003-d01 HT0339 Homo sapiens cDNA	Atrichum angustatum AtranFlo2 protein (AtranFlo2) gene, partial cds	zw03d04.s1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:768199 3'	UI-H-BI3-alo-f-08-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA.clone IMAGE:3068294 3'	UI-H-BI3-elo-f-08-0-UI,s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068294 3'	Homo sapiens similar to endoglycan (H. sapiens) (LOC63107), mRNA	FOLD BIFUNCTIONAL PROTEIN (INCLUDES: METHYLENETETRAHYDROFOLATE DEHYDROGENASE : METHENYI TETRAHYDROFOI ATE CYCI OHYDROI ASE 1	H. sapiens flow-sorted chromosome 6 Hindlil fragment, SC6pA20F8	NITRIC-OXIDE SYNTHASE, BRAIN (NOS, TYPE I) (NEURONAL NOS) (N-NOS) (NNOS)	EST180187 Liver, hepatocellular cardinama Homo saplens cDNA 5' end	MYOSIN-2 ISOFORM	602128682F1 NIH_MGC_56 Homo sapiens cDNA clane IMAGE:4286180 5'	Mus musculus hippocampus abundant gene transcript 1 (Hiat1), mRNA	PROBABLE DNA LIGASE (POLYDEOXYRIBONUCLEOTIDE SYNTHASE [ATP])	EST11695 Uterus Homo saplens cDNA 5' end	TRANSCRIPTION INITIATION FACTOR TFIID 135 KDA SUBUNIT (TAFII-135) (TAFII135) (TAFII-130)	Homo sapiens chromogranin A (parathyroid secretory protein 1) (CHGA) mRNA	Homo saplens patred box gene 6 (anIndia, keratitis) (PAX6), isoform b, mRNA	CYTOCHROME C OXIDASE POLYPEPTIDE III	Homo sapiens vacuolar sorting protein 4 (VPS4), mRNA	Sheep mRNA for anglotensinogen, complete cds	zn99a05.s1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:566288 3'	601191770F1 NIH_MGC_7 Home sapiens cDNA clone IMAGE:3535648 5	
Top Hit Detabase Source	EST_HUMAN		TN	T HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN		TORGREIMS	Т	TORIGORA		Т			SWISSPROT	EST_HUMAN	TORGSIMS		K	SWISSPROT	H	NT	EST_HUMAN	EST HUMAN	
 Top Hit Acession No.	62805.1		F022236.1	F701593.1	F701593.1	E153572.1		8.9E-02 AA424887.1	8.9E-02 AW 452122.1	8.9E-02 AW 452122.1	11433478 NT	47259		29475	A309319.1	219524	8.1	6680220 NT	227474	VA289128.1	900268	4502804	4580423 NT	214546	7019568 NT	J17520.1	A151872.1	3E264455.1	
Most Similar (Top) Hit BLAST E Value	9.0E-02 R		9.0E-02	8.9E-02	8.9E-02	8.9E-02 B	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	g or a	8.9E-02 Z79021.1	9.00-38.8	8.9E-02			8.9E-02	8.8E-02	8.8E-02	8 RF-02	8.8E-02	8.8E-02	8.8E-02	8.8E-02	8.8E-02	8.8E-02	8.8E-02	
Expression Signal	0.83		1.46	1.24	1.24	7.53	1.92	4.18	2.44	2.44	3.41	124	2.18	0.93	4,35	1.52	4.35	1.35	1.43	0.94	5.19	1.35	16.0	1.69	5.87	92'0	2.07	4.28	
ORF SEQ ID NO:	32679			28463	26464	27312		29572	31403	31404	31426	86666		34006	L				26396	28855					30316		34670	36331	
Exon SEQ ID NO:	19861		24339	13899		14792	16740	17198	18708	18708	18722	20084	L.	21103		L	l	24163	13940	16448	16579	L	16844				21764		
Probe SEQ ID NO:	7148		12231	1466	1466	2285	4215	4680	6137	6137	6154	7637	8073	8668	9068	11632	11793	11863	1408	3913	4047	4258	4321	5394	5478	8057	9332	10898	

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3691	16231	28640	3.95	8.7E-02 U	U82695.2	TN	Homo saplens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and biglycan (BGN) genes, complete cds; and plasma membrane calcum ATPase isoform 3 (PMCA3) gene, partial cds
3691	16231	28641	3.95		8.7E-02 U82695.2	IN	Homo saplens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and biglycan (BGN) genes, complete cds; and biglycan anembrane calcium ATPass tenform 3 (PMCA3) pages posted and biglycan (BGN)
4756	17270	29653	1.4		_	LN	Mus musculus JNK Interacting protein-3a (Jip3) mRNA, complete cds
5243	17744		1.15	8.7E-02		IN	Methanobacterlum thermoautotrophicum from bases 1176181 to 1189406 (section 101 of 148) of the complete genome
6567	18155	30517	6.73	8.7E-02	8.7E-02 AA286875.1	EST HUMAN	2555908.s1 NCI CGAP GCB1 Home seniens cDNA cleme IMACE: 701429 31
5567	18155	30518	6.73	8.7E-02		EST HUMAN	255508.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:701438 3
7240	19851	32671	8.0	8.7E-02		IN	Mus musculus partial Kong1 gene for potassium channel protein, exons 10.14
7240	19851	32672	9.0	8.7E-02		N _T	Mus musculus partial Kong1 gene for potassium channel protein, exons 10-14
7472	19676	32472	0.67	8.7E-02		L	Oncorhynchus mykiss TAT-binding protein 1 mRNA, partial cds
10496	22946		3.45	8.7E-02		N	Onctolegus cuniculus cytochroma P-450 (CYP4A4) gene. 5' end
11859	24106		2.68	8.7E-02	X17116.1	NT	Human DNA for immunoglobulin alpha heavy chain from a case of alpha heavy chain disease
12088	24224		1.75	8.7E-02	LN 2506269	FZ.	Mus musculus ridogen 2 (Nid2), mRNA
1285	13820	28272	7.28	8.6E-02	8.6E-02 AJ271738.1	N	Homo sapiens Xq pseudoautosomal region: segment 2/2
2152	14685	27188	3.2	8.6E-02		EST HUMAN	601304016F1 NIH MGC 21 Homo sapiens cDNA clone IMAGE 3638643 5
3145	15698	28116	2.76	8.6E-02		TN	Trichomonas vaginalis beta-tubulin (btub1) gene, complete cris
3644	16184		4.11	8.6E-02	8.6E-02 AF153362.1	N.	Dictyostellum discoldeum adentivi cyclase (acrA) gene, complete cyts
3781	16319		0.62	8.6E-02		Į.	Mus musculus long incubation prior protein (Prrob) and prior. like nortein (Prrod) recess consists and
K207	47707		0	10			Chromattum vinosum tetraheme cytochrome c gene, 3' end, bacterial ankyrin homologue, flavocytochrome o
EATE	12027	2000	3.02	8.6E-02	3419.1	IN	heme subunit fccA (complete cds), and flavin subunit, fccB (3' and)
	200	2000	LC.T	8.6E-02 BI		EST_HUMAN	RC0-HT0885-290800-033-h08 HT0885 Homo saplens cDNA
9402	18959	31694	4.75	8.6E-02		N _T	Hamo sapiens LCN1b gene
6707	19254	32007	1.7	8.6E-02		NT	Mouse germline IgM chain gene, D region: D-o52, mu switch region (part a)
6707	19254	32008	1.7	8.6E-02	0440.1	NT	Mouse germline IgM chain gene. D region: D-652. mu switch region (next a)
6808	20525	33405	1.08	8.6E-02 P1	4616	SWISSPROT	INSULIN RECEPTOR-RELATED PROTEIN PRECURSOR (IRRIVIR RELATED RECEPTOR)
8584	21019	33918	1.2	8.6E-02	5730068 NT	NT	Homo sapiens Snf2-related CBP activator protein (SRCAP) mRNA
8584	21019	33919	1.2	8.6E-02	5730066 NT	NT NT	Homo saplens Snf2-related CBP activator protein (SRCAP) mRNA
8723	21158		0.0	8.6E-02			Dictyostellum discoldeum proteasome subunit C2 homolog PrtC (prtC) gene campiete cds
9857	22260	35188	1.09	8.6E-02	8.6E-02 AF111170.3		Homo sapiens 14q32 Jegged2 gene, complete cds; and unknown gene

oligio Evol Floras Expressed III Luig	Top Hit Descriptor	hi20c08x1 NCI_CGAP_GU1 Hamo sapiens cDNA clone IMAGE:29728463'	Rettus narvegicus SPA-1 like protein p1294 mRNA, complete cds	601893437F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:4139216 5'	801893437F1 NIH_MGC_17 Homo saptens cDNA clane IMAGE:4139216 5'	Archaeoglobus fulgidus section 34 of 172 of the complete genome	Bacilius stearothermophilus BsrFI methylase (FIM) and BsrFI restriction endonuclease (FIR) genes, complete ods	Helicobacter pylori 28695 section 130 of 134 of the complete genome	og83b07.s1 NCI_CGAP_Kid8 Homo sapiens cDNA cione IMAGE:16929/7.3' similar to gb:K01144 HLA CLASS II HISTOCOMPATIBILITY ANTIGEN, GAMMA CHAIN PRECURSOR (HUMAN):	M PROTEIN, SEROTYPE 6 PRECURSOR	Mus musculus phospholipase C-like protein mRNA, partial cds	Mus musculus myosin XV (Myo15), mRNA	RC4-OT0037-200700-014-e05 OT0037 Homo saplens cDNA	RC4-OT0037-200700-014-e05 OT0037 Homo saplens cDNA	Homo sapiens chromosome 22 open reading frame 5 (C220RF5), mRNA	Homo sapiens heparanase precursor, mRNA, complete cds	Streptococcus mutans gene for glucose-1-phosphate unidylytransferase, complete cds	Antirmhum majus mRNA for MYB-related transcription factor	ES772736 Ovary II Homo saplens cDNA 5' end	zd44e11.r1 Soares_fetat_heart_NbHH19W Home saplens cDNA clone IMAGE:343532.5	Drosophila melanogaster cople-tike element 17.6	EST178192 Colon carcinoma (HCC) cell line Homo sapiens cDNA 6' end	EST178192 Colon carcinoma (HCC) cell line Homo sapiens cDNA 6 end	601190436F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3534393 5'	Homo sapiens mRNA for FLJ00050 protein, perttal ods	CM3-BT0790-260400-162-d05 BT0790 Homo saplens cDNA	Homo sapiens attractin precursor (ATRN) gene, exon 2	as88g10.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2335942 3' similar to TR:O88312	O88312 GOB-4.;	W83h12.r1 Soares placenta Nb2HP Homo sapiens cDNA done IMAGE:145895 5'	HYPOTHETICAL LIPOPROTEIN MG309 HOMOLOG PRECURSOR	th82g06.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:2125210 3'	th82g06.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:2125210 3'
JIG EXOII FIG	Top Hit Database Source	EST HUMAN	N	EST HUMAN	EST_HUMAN	N	k	N	EST HUMAN	SWISSPROT	N FN	LN	EST HUMAN	EST HUMAN	N N	۲N	NT	N-	EST HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	NT		EST_HUMAN	EST_HUMAN	SWISSPROT	EST_HUMAN	EST_HUMAN
	Top Hit Acession No.	AW662153.1	AF026504.1	BF305608.1	BF305606.1	AE001073.1	AF283660.1			P08089	AF233885.1	6764779 NT	BE833054.1	BE8330		AF155510.1	AB001562.1	AJ005586.1	AA362934.1	W69330.1	\sim	AA307073.1	AA307073.1		8.4E-02 AK024458.1	BE095074.1	8.4E-02 AF218890.1		8.4E-02 AI735184.1	-		Al436797.1	8.3E-02 AI436797.1
	Most Similar (Top) Hit BLAST E Value	8.6E-02	8.6E-02	8.6E-02	8.6E-02	8.6E-02	8.6E-02	8.5E-02	8.5E-02	8.5E-02	8.5E-02	8.6E-02	8.5E-02	8.5E-02	8.5E-02	8.5E-02	8.5E-02	8.5E-02	8.5E-02	8.4E-02	8.4E-02	8.4E-02	8.4E-02	8.4E-02	8.4E-02	8.4E-02	8.4E-02		8.4E-02	8.4E-02	8.3E-02	8.3E-02	8.3E-02
	Expression Signal	1.02	0.89	3.52	3.62	27.94	2.82	2.37	0.69	2.4	7.27	2.14	3.77	3.77	0.84	6.75	5.86	1.98	2.53	3.79	2.63	1.12	1.12	11.11	1.63	7.15	0.84		1.78	1.39	7.64	2.3	2.3
	ORF SEQ ID NO:			36460	36461	35812	36739	27321	31201		31601	34416	35269		35733		36386			27617			Į	30515	32387	33395	34587		35644	31023			28564
	Exan SEQ ID NO:	22283	22552		23442	22840	23688	14803	18516				22322			23366							Į	18153	- 1	- 1	21678		- 1		- 1	- 1	16155
	Probe SEQ ID NO:	9880	10151	11015	11015	11188	11324	2286	5938	5979	6315	9074	8920	9920	10365	10934	10946	12290	12478	. 2605	5155	2269	6259	5565	7059	8652	9248		10281	11776	3585	3615	3615

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4320			0.62	8.3E-02	M54984.1	NT	C.thummi A2b region open reading frame, complete cds
6415			1.72	8.3E-02	BE546188.1	EST HUMAN	801071212F1 NIH MGC 12 Homo saplens cDNA clone IMAGE:3457202 5
6582				8.3E-02		EST_HUMAN	wo79f11.x1 NCI_CGAP_Kid11 Homo septens cDNA clone IMAGE:24615813'
6699	- 1	31997	3.18	8.3E-02	AF052683.1	N _T	Homo saplens protocadherin 43 gene, exon 1
8618	21053	33959	3.51	8.3E-02	AF195787.1	N	Rattus norvegicus dystrophin-related protein 2 A-form splice variant (Dro2) mRNA, complete cds
8642	21077		1.57	8.3E-02	AA865285.1	EST HIMAN	og88g08.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1455422 3' similar to contains L1.t1 L1 L1 Intentitive element
8850			1.59	8.3E-02	1	EST HUMAN	og81f10.s1 NCI CGAP Kid8 Hamo seplens cDNA clone IMAGE-15927779.3
9722	22145	35072	1.4	8.3E-02	AW583503 1	EST HIMAN	la05h10.xf Human Pancreatic Islets Homo sapiens cDNA 3' similar to TR:Q15332 Q15332 GAMMA SIRIRI NIT OF SOLDII IM POTASSII IN ATDASSE I INC.
9731	22058		2	8.3E-02		NT	Arabidopsis thalians DNA chromosome 4 controfrement No of
11875	24911		1.96	8.3E-02		EST HUMAN	601644770F1 NIH MGC 56 Home septems cDNA clave IMAGE: 3020003 F
1411			12.89	8.2E-02		N	Gallus gallus mRNA for for OBCAM protein gamma isoform
1524		26519	2.98	8.2E-02	AF167077.2	TN	Cantis familiaris glutamate transporter (EAAT4) mRNA complete cds
3035			2.13	8.2E-02		ᅜ	Homo saplens chromosome 21 segment HS21C006
3808			1.53	8.2E-02	_	N	Arabidopsis thallana DNA chromosome 4. contin fragment No. 10
4021			1.08	8.2E-02	_	Į.	Homo saplens chromosome 21 segment HS21 C006
4394						SWISSPROT	LEUCOCYTE ANTIGEN CD97 PRECURSOR
<u> </u>	_		7.55	8.2E-02	P48960	SWISSPROT	LEUCOCYTE ANTIGEN CD97 PRECURSOR
گ				8.2E-02	P48960	SWISSPROT	LEUCOCYTE ANTIGEN CD97 PRECURSOR
5211			3.64	8.2E-02	U76009.1	N	Mus musculus zinc transporter (ZnT-3) gene, complete cds
2288	- [1.66	8.2E-02	BE897030.1	EST_HUMAN	601439576F1 NIH MGC 72 Hamo saplens cDNA clone IMAGE:3924523 6'
7488 448	J	32785	3.17	8.2E-02	AF309555.1	N	Bos taurus connective tissue growth factor precursor (CTGF) gene, complete cds
8282			0.56	8.2E-02	AV743341.1	EST_HUMAN	AV743341 CB Home seplens cDNA clone CBLANF07 5'
9183			3.04	8.2E-02	AW875128.1	T_HUMAN	RC2-PT0004-031299-011-d05 PT0004 Homo saplens cDNA
9764	$_{ m L}$			8.2E-02	X04197.1	N	Beet negrotio yellow vein vfrus RNA-2
9875				8.2E-02	BE254318.1	EST HUMAN	601115055F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE:3355598 5
11882	24118	31003	6.33	8.2E-02	AE002246.2	NT	Chlamydophila pneumoniae AR39, section 73 of 94 of the complete genome
ļ				•			Mus musculus epidermal growth factor receptor (Egfr) gene, exons 5 through 28, and complete cds.
	24004		3.58	8.2E-02	AF275366.1	NT	alternatively spliced
1523		26518	1.04	8.1E-02/A	AB017138.1	TA.	Pseudomonas putida malonata decarbox/lase gene cluster (mdcA, mdcB, mdcC, mdcD, mdcE, mdcG, mdcH, mdcH, mdcM, const.), constant of the malon of the
5039	i I	29919		8.1E-02 B	BF343921.1	EST HUMAN	602015608F1 NCI CGAP Rm84 Home capiene cDNA close IMAGE 448840 E
5039	17549		0.92	8.1E-02	8.1E-02 BF343921.1	Г	602015608E1 NCI CGAP PERSA Homos copios actividades (11104) o
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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6033		31295	1.09	8.1E-02	E004006.1	IN	Xyelia fastidiosa, section 162 of 229 of the complete genome
6713		32015	96.0	8.1E-02	T11532.1	T HUMAN	A1484F Heart Homo septens cDNA clone A1484
7641			0.83	8.1E-02	8.1E-02 AL163279.2	ı	Homo sapiens chromosome 21 segment HS21C079
8100			1.13	8.1E-02	1692681.1	EST_HUMAN	wd86f08.x1 NCI_CGAP_Lu24 Home saplens cDNA clone IMAGE:2338603 3'
9378			1.77	8.1E-02		NT	Homo sapiens extracellular glycoprotein lacritin precursor, gene, complete cds
11255		36669	3.13	8.1E-02	8.1E-02 AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2			9	8.0E-02		EST HUMAN	EST366723 MAGE resequences, MAGC Homo sabiens cDNA
980	ı		0.75	8.0E-02	60315.1	L	Malluscum contagiosum virus subtype 1, complete gename
1695	١.		11.91	8.0E-02 D	26535.1	NT	Human gene for dihydrolipoamide succhyltransferase, complete cds (exon 1-15)
1695			11.91	8.0E-02		NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
1864		26877	2.68	8.0E-02	E067219.1	EST_HUMAN	PM3-BT0347-170200-001-b08 BT0347 Homo saplens cDNA
2268	_]	27297	7.07	8.0E-02 D		N	Synechocystis sp. PCC6803 complete genome, 17/27, 2137259-2267259
2268		27288	7.07	8.0E-02		- IZ	Synechocystis sp. PCC8803 complete genome, 17/27, 2137259-2267259
2365			5.48	8.0E-02		EST HUMAN	601855548F1 NIH MGC 57 Homo saplens cDNA clone IMAGE: 4075619 5'
2779	_ [28102	0.89	8.0E-02		N	Dictyoselium discoideum cyclic nucleotide phosphodiesterase gene, complete cds
2853	16408	27828	0.73	8.0E-02	8.0E-02 AL445067.1	님	Thermoplasma acidophilum complete genome; segment 5/5
3824	16361	28761	68.0	8.0E-02		EST HUMAN	EST378191 MAGE resequences, MAGI Homo sablens cDNA
4088 88	16617		19.0	8.0E-02	4503034	IN	Homo sapiens cAMP responsive element binding protein-like 2 (CREBL2) mRNA
8	17383		7.19	8.0E-02	8.0E-02 X72794.1	NT	M.musculus gene for gelatinase B
4995	17505	20884	C	100	- 12000A	ļ	Herpesvirus salmiri transformation-associated protein (STP), and dihydrofolate reductase (DHFR) gene s
6359	17857	30216	2.73	8 OF 02			Complete cds, and small nuclear KNAS (UKNAS)
5365	17863	30222	0.77	8.0E-02	7.1	EST HIMAN	U.H.BIJafafafafafanan I apria jana, beradum, mrava, 1404 m.j
8018	18592	31278	0.45	8.0E-02	T	EST HUMAN	EST363209 MAGE resentiences, MAGA Homo sentens chivia
6181	18748	31448	4.08	8.0E-02		LN	Homo saplens ABCA1 (ABCA1) gene complete cds
7624	18748	31448	1.72	8.0E-02		N	Homo saplens ABCA1 (ABCA1) gene, complete cds
8722	21157	34064	3.62	8.0E-02		NT	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen departyation
11913	24136	30970	4.24	8.0E-02		FN	Drosophila crena hunchback region
12535	16617		2.14	8.0E-02	4503034 NT		Homo sapiens cAMP responsive element binding protein-like 2 (CREBI.2) mRNA
2081	14595	27114	2.23	7.9E-02	7.9E-02 BE250008.1	EST_HUMAN	600943191F1 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2959510 6'
2934	15489	27910	12.46	7.9E-02 AI	582029.1	EST HUMAN	er98c08.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2173646 3' similar to gb:Z26876 60S RIBOSOMAL PROTFIN 138 (HIIMAN):
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
2800	46997	06290	04.40	70 70	o Pososo A	Ę	Plasmodium faiciparum strain Dd2 heat shock protein 86 (HSP86), O1 (o1), O3 (o3), O2 (o2), CG8 (og8), CG4 (cg4), CG3 (cg3), putative chloroquine resistance transporter (crt), CG9 (cg9), CG1 (cg1), CG6 (cg6), CG1 (cg1), C
3857	1			7.9F-02	6881044 NT	L	Mus musculus colony affinition factor 1 recentor (Ceff.) mRNA
3857	16393			7.9E-02		Z	Mus musculus colony stimulating factor 1 receptor (Osf1r), mRNA
4869	17381		1.31	7.9E-02	7.9E-02 AB008019.1	N	Arabidopsis thallana RXW24L mRNA, partial cds
4979	17490	29867	1.22	7.9E-02	124757.1	NT	Human bone sialoprotein (BNSP) gene, exons 2, 3 and 4
4988	17498		16.84	7.9E-02	7.9E-02 AW081738.1	EST_HUMAN	xb70a10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2581626.3'
							Homo saplens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T64 protein,
5605	18103		0.44	7.05.00	7 05 00 05408770 4	FIN	JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes,
	1			7.95-02	AT 1807 / 8.1		compress cas, and trippe cardial clistics
7067				7.9E-02	<u></u>	EST_HUMAN	RC3-GN0042-310800-024-d11 GN0042 Homo saplens cDNA
8654	21089	33998	3.28	7.9E-02	7.9E-02 U27832.1	NT	Saccharomyces cerevisiae suppressor of MIF2 Smt4p (SMT4) gene, complete cds
10056	22467	36407	90.9	7.9E-02	7.9E-02 AI081644.1	EST HUMAN	au63b05.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632465 3' similar to WP:C37A2.2 CE08811:
10058	22457	35408		7 05 02	01081844 4	I FOD	au63b05.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632465 3' similar to WP:C37A2.2
2	1			70-26-1	AUG 1044.1	ESI_TICIMAIN	UEU0011;
1241	13779	26225	1.54	7.8E-02	7.8E-02 AI793275.1	EST_HUMAN	oo59d02.y5 NCI_CGAP_Lu5 Homo sepiens cDNA clone IMAGE:1570467 5' similar to contains L1.t3 L1 repetitive element;
							0059402.y5 NCI_CGAP_Lu5 Homo sapiens cDNA cione iMAGE:1570467 5' similar to contains L1.t3 L1
1241			1.54	7.8E-02	7.8E-02 AI793275.1	EST_HUMAN	repetitive element;
2295			3.06	7.8E-02	7.8E-02 AF221942.1	N.	Sus scrofa telomerase RNA pseudogene
2295		27320	3.06	7.8E-02	7.8E-02 AF221942.1	N.	Sus scrofa telomerase RNA pseudogene
3749			96'4	7.8E-02	7.8E-02 BE250048.1	EST HUMAN	800943055F1 NIH_MGC_15 Homo septems cDNA clone IMAGE::2959693 5
5219	16288		2.3	7.8E-02	7.8E-02 BE250048.1	EST_HUMAN	600943055F1 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2859693 67
7509	19712	32616	1.33	7.8E-02 U	U82695.2	Ę	Homo sapiens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and biglycan (BGN) genes, complete cds; and bigsma membrane calcium ATPasa isoform 3 (PMCA3) cense, partial cds
7509	19712	32516	1.33	7.8E-02	U82695.2	Ä	nomo seprens zna unger protein 92 (z.F.542), expressed-Aq263 i S protein (Ad28ONF), and bignycan (BGN) genes, complete cds; and plasma membrane catcium ATPese isoform 3 (PMCA3) gene, partial cds
9380	21812	34725	6.0	7.8E-02	7.8E-02 AF233437.1	TN	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1b mRNA, complete cds

Top Hil Descriptor	Homo saplens FWE domain-containing dual specificity protein phosphatase FYVE-DSP1b mRNA, complete cds	P Prf Homo sapiens cDNA clone IMAGE:777731	receptor alpha chain gene, complete cds	ikin (EVPL) gene, excess 16 through 18	WRN) gene, complete cds	1F-4 gene, exons 2 to 7 and Alu reneat elements	NA chromosome 4, contia fragment No 13	n section 2 of 51 of the complete nepome	the XII siphe-1 (COI 1241) dene promoter region and norticl ods.	7e04f03.x1 NCI_CGAP_Lu24 Hamo septens cDNA clone IMAGE:3281501 3' similar to TR:095415 095415	ary tumor NbHOT Homo seplens cDNA ctone IMAGE:741717 5' similar to	THREONINE PROTEIN KINDSE VRROED	ta80b08.x1 NCI_CGAP_HSC2 Homo saplens oDNA clone IMAGE:2050359 3' similar to gb:228878 60S RIBOSOMAL PROTEIN 138 (HUMAN)	1880508.x1 NCI_CGAP_HSC2 Homo sepiens cDNA clone IMAGE:2050359 3' similer to gb:Z26876 60S RIBOSOMAL PROTEIN 139 (HI MAN):	28 gene product (KIAA0628) mRNA	an requiabov factor 7 (IRF7), mRNA	001-B01 HT0125 Homo sapiens cDNA	3C 8 Homo saplens cDNA clone IMAGE:3834903 51	m II Homo sapiens cDNA 5' end similar to similar to protocadherin 43	Homo saplens ASCL3 gene, CEGP1 gene, C11arf14 gene, C11arf15 gene, C11arf16 gene and C11arf17	Ilms timor Home seniore CDNA class IMACE (1900) 21	3C 44 Homo sanians CDNA close IMAGE: 3508404 F	ne locus	ICTC11168 complete genome: segment 5/8	or triose phosphate translocator	or triose phosphate translocator	151-e04 BN0046 Homo saplens cDNA
Top Hit Descriptor	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FY cds	nc68b06.rf NCI CGAP Prf Homo sapiens cDNA clone IMAGE 771731	Human Interleukin-11 receptor alpha chain gene, complete cds	Homo sapiens envoplakin (EVPL) gene, exons 16 through 18	Homo saplens WRN (WRN) dene, complete cds	Homo saplens partial AF4 gene, exons 2 to 7 and Alu repeat elements	Arabidopsis thaltana DNA chromosome 4. contin fragment No. 13	Mycoplasma denitalium section 2 of 51 of the complete neuma	Gallus gallus collagen tone XII alpha-1 (COI 12A1) gane promoter region and partiel ada	7e04f03.x1 NC_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3281501 3's is PROTEIN.	zu53d11.r1 Soares ovary tumor NbHOT Homo saplens cDNA clone IMAGE:741717 6' similar to TR:04173905 G1173905 SDI ICEOSOME ASSOCIATED BEATERN	PROBABLE SERINE/THREONINE-PROTEIN KINASE VBRAGOC	ta80b08-xf NCI_CGAP_HSC2 Home septens oDNA clone IMAGE;2050359 31. RIBOSOMAL PROTEIN 138 /HIMAN):	1890b08.x1 NCI_CGAP_HSC2 Homo septens cDNA clone IMAGE:2050359 31 RIBOSOMAL PROTEIN J 38 (HI IMAN):	Homo sapiens KIAA0628 gene product (KIAA0628) mRNA	Homo sapiens Interferon regulatory factor 7 (IRF7), mRNA	PM3-HT0125-020999-001-801 HT0125 Homo sapiens cDNA	601316428F1 NIH MGC 8 Homo sapiens cDNA clone IMAGE:3634903 5'	EST112214 Cerebellum II Homo sapiens cDNA 5' end similar to similar to protocadherin 43	Homo saplens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11	en25a02.x1 Gessler Wilms firmor Homo contons cDNA close 1446.CE:4600720.21	601236402F1 NIH MGC 44 Homo sanians cDNA close IMAGE: 300404 F	Homo saplens SCL gene locus	Campylobacter leiuni NCTC11168 complete genome: segment 5/8	Lesculentum mRNA for triose phosphate transfocator	Lesculentum mRNA for triose phosphate translocator	QV3-BN0046-150400-151-e04 BN0046 Homo saplens cDNA
Top Hit Database Source	Į.	EST HUMAN		¥	١					T HUMAN		T	i i	I	1		EST HUMAN	Г		<u> </u>	HUMAN	Π	Т				T_HUMAN
Top Hit Acession No.	AF233437.1	AA469354.1	U32323.1	U72847.1	AF181897.1	AJ238093.1	AL161501.2	U39680.1	AF062636.1	BE674473.1	AA402949.1	P38080	Al318662.1	Al318662.1	11422757 NT	11436859 NT	AW178799.1	BE514432.1	AA298447.1	AJ400877.1	Al061275.1	BE379328.1	AJ131016.1		X92656.1		AW996645.1
Most Similar (Top) Hit BLAST E Value	7.8E-02	7.8E-02	7.8E-02	7.8E-02	7.7E-02	7.7E-02	7.7E-02	7.7E-02	7.7E-02	7.7E-02	7.7E-02		7.7E-02	7.7E-02	7.7E-02	7.7E-02			7.6E-02	7.6E-02	7.6E-02	7.6E-02	7.6E-02	7.6E-02	7.6E-02	7.6E-02	7.6E-02
Expression Signal	0.0	1.19	117.61	1.29	1.16	2.3	1.02	6.53	0.44	0.48	4.83	4.41	0.83	0.83	4.41	2.07	1.48	2.28	1.13	9.0	0.84	1.08	1.22	1.59	0.87	0.87	2.17
ORF SEQ ID NO:	34726				26420		29962	30159	31048	33820	33901	35268	35507	35508	36213		27400	28332	28345	28505	31697	31985	35006		35793	35794	36831
Exan SEQ ID NO:	21812	22072	22908	24393	15310	16121	17600	17793	18387	20924	21003	22321	22539	22639	23229	24758	14882	1591	15931	16088	18962	19235	22079	22370	22823	22823	23772
Probe SEQ ID NO:	8380	8282	10467	12318	1431	3679	2080	5293	5807	8512	8568	9919	10138	10138	10791	12122	2377	3365	3385	3546	6405	6687	9599	8988	19423	10423	11411

Table 4
Single Exon Probes Expressed in Lung

			_	-			_	-	_	_	-			-	_	-	_		_	_	_	_	_		_		-	-
Aire II proportion of the control of	Top Hit Descriptor	Homo sapiens solute carrier family 6 (neurotransmitter transporter, glycine). member 9 (SL C8A9). mRNA	Homo sabiens solute carrier family 8 (neurotransmitter transportar, olycine), member o (SI CRAD) mDNA	Homo saplens IL-18 gene for interleukin-18, intron 1 and exon 2	wq24h09x1 NCI_CGAP_Kld11 Homo saplens cDNA clone IMAGE:2472287 3'	wi52b02.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2428491 3' similar to gb:M14328 ALPHA ENOLASE (HUMAN):	AU118913 HEMBA1 Homo sapiens cDNA clone HEMBA1000264 5	C.fimi DSM 20113 165 rDNA	RC5-LT0054-260100-011-H09 LT0054 Homo saplens cDNA	Equine herpesvirus 4 strain NS80567, complete genome	Mus musculus paired-like homeodomain transcription factor 1 (Pitx1), mRNA	W43h01.x1 Soares NFL T GBC S1 Homo septens cDNA clone IMAGE:2358385.3'	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds	Rettus norvegicus Activin receptor like kinase 1 (Acvri1), mRNA	Mus musculus ubiquintin c-terminal hydrolase related polypeptide (Uchro), mRNA	1xg14g08.r1 Scares Infant brain 1NIB Homo saciens cDNA clone IMAGE:32339 5	no71d02.s1 NCI_CGAP_AA1 Homo saplens cDNA clone IMAGE:11122593'	601493366F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3885264 6'	Human periodic tryptophan protein 2 (PWP2) gene, exons 15 to 21, and complete cds	hh67411.y1 NCI_CGAP_GU1 Homo sepiens cDNA clone IMAGE:2967881 5 similar to SW:SCA2_HUMAN O15127 SECRETORY CARRIER-ASSOCIATED MEMBRANE PROTEIN 2:	hh67411.y1 NCI_CGAP_GU1 Homo saplens cDNA clone IMAGE:2967861 5' similar to SW:SCA2_HUMAN O15127 SECRETORY CARRIER-ASSOCIATED MEMBRANE PROTFIN 2	Human LIM-kinasef and alternatively spliced LIM-kinasef (LIMK1) gene, complete cds	ao11407.s1 Barstead aota HPLRB3 Homo sepiens cDNA clone IMAGE:1726286 3' similar to gb:M86492 GLIA MATURATION FACTOR RETA (HIMAN)	Homo sabiens histone deacetylase 5 (NY-CO-9) mRNA	CM4-HT0243-081199-037-d11 HT0243 Homo sepiens cDNA	Brassica oleracea isolate B265 ABI1 protein (ABI1) gene, partial cds; RPS2 protein (RPS2) and N-myristoyi Iransferase (N-MYR) nense, complete cds, and CK1a protein (CK1a) sense method odd.	601463813F1 NIH MGC 66 Homo septens cDNA clone IMAGE:3857738 5	601658738R1 NIH MGC 69 Homo saplens cDNA clone IMAGE:3886209 3'
	Top Hit Database Source	F	F	ΝŢ	EST HUMAN	EST HUMAN	EST HUMAN	N L	EST HUMAN	Į,	N	EST HUMAN	NT	NT	NT.	EST HUMAN	EST HUMAN	EST HUMAN	TN	EST_HUMAN	EST HUMAN	NT.	EST HUMAN	NT	EST HUMAN	L _N	EST HUMAN	EST_HUMAN
	Top Hit Acession No.	5902093 NT	5902093 NT	AB015961.1	AI948714.1	A1864367.1	AU116913.1	X79460.1	AW838547.1	AF030027.1	6755069 NT	AI807885.1	78810.1	6978442 NT	6678492 NT	R17477.1	AA605132.1	3E880112.1	J56089.1	7.4E-02 AW629605.1	7.4E-02 AW 629605.1	J62293.1	7.4E-02 Al125083.1	11525893 NT	7.4E-02 AW379431.1	F180355.1	F035099.1	7.3E-02 BE964961.2
	Most Similar (Top) Hit BLAST E Value	7.5E-02	7.5E-02	7.5E-02	7.5E-02	7.5E-02	7.5E-02	7.5E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02	7.4E-02 A	7.4E-02	7.3E-02
	Expression Signal	1.48	1.48	0.7	1.15	1.64	1.22	Ю.0	4.35	1.17	1.49	0.79	1.59	2.79	1.84	1.82	0.58	1.25	1.06	1.19	1.19	0.94	1.65	1.37	3.57	1.27	1.31	1.65
	ORF SEQ ID NO:	25801	25802	29445	31406	34226	34350	36795	25487			28543		29743	29905				34346	34801			36784					25477
	Exan SEQ ID NO:	13366	13366	17062	18707	21316	21440	22824	13068	14021	15001	16130	17268	17358	17633	19385	20401	20998	21438	21882	21882	22305	23724	24087	24883	24332	24376	13060
	Probe SEQ ID NO:	807	807	4545	6139	8881	9007	10424	495	1489	2500	3588	4754	4846	6023	6844	7965	8563	9003	9451	9451	නෙය	11361	11835	12114	12220	12287	486

	Top Hit Descriptor Source	EST_HUMAN 601883905F1 NIH_MGC_67 Homo septens cDNA clane IMAGE:4096224 5	Г		Strongylocentrotus purpuratus mitochondrion, complate genome	EST_HUMAN AV712452 DCA Homo saplens cDNA clone DCAAUG01 5'	Homo sapiens plasma membrane calclum ATPase isoform 1 (ATP2B1) gene, atternative splice products, partial cds	EST HUMAN 601763523F1 NIH MGC 20 Homo septens cDNA clone IMAGE:4026436 5	hq24f11.x1 NCI_CGAP_Adr1 Homo sapiens cDNA clone IMAGE:3120333 3' similar to TR:Q92340 Q92340 EST_HUMAN ATYPICAL PKC SPECIFIC BINDING PROTEIN.;	Γ.	Homo saplens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and biglycan (BGN) genes, complete cds; and bigsycan membrane calcium ATPasa iscform 3 (PMCA3) neme, partial orts	EST HUMAN 601343928F1 NIH MGC 63 Homo sapiens cDNA clone IMAGE:3686851 5	П	Т	EST HUMAN af81a04.rl Soares NhHMPu S1 Homo saplens cDNA come IMAGE:1048398 5	Γ	EST_HUMAN nco5h08.s1 NCI_CGAP_Phe1 Homo saplens cDNA done IMAGE:10s9839 3'	Homo saplens atexda telangiectasta (ATM) gene, complete cds	EST_HUMAN CM4-NN1009-200300-116-c11 NN1009 Homo septiens cDNA	EST_HUMAN z57c12.r1 Sogres_tests_NHT Homo sapiens cDNA clone IMAGE:726454 6'	Human immunodeficiancy virus type 1 (D9) proviral structural capsid protein (cap) gene, partial cals	EST HUMAN 801872281F1 NIH MGC 53 Homo saplens cDNA clone IMAGE-4092841 ft	Т	Г	Π	Γ	EST_HUMAN UI-H-BIT-scy-c-07-0-UI.st NCI_CGAP_Sub3 Homo septens cDNA ctone IMAGE:2716020 3'	al65a12.s1 Soares_testis_NHT Homo saplens cDNA clone 1375678 3' similar to gb:K03002 60S
	op Hit Acession No.		7.2E-02 BF216086.1 EST	7.2E-02 AF221128.1 NT	4897	7.2E-02 AV712452.1 EST	14561.1 NT	7.2E-02 BF125399.1 EST	_	7.2E-02 AA768204.1 EST	182695.2 NT	7.2E-02 BE565003.1 EST					1.1	82828.1 NT			02290.1	7.1E-02 BF208802.1 EST				Γ	1.1	
	Most Similar (Top) Hit BLAST E Value	7.2E-02 B	7.2E-02 B	7.2E-02 A	7.2E-02	7.2E-02 A	7.2E-02 L	7.2E-02 B	7.2E-02 A	7.2E-02 A	7.2E-02 U	7.2E-02 B	7.2E-02 B	7.2E-02 A	7.2E-02 A	7.2E-02 A	7.2E-02 A	7.2E-02 U82828.1	7.2E-02 A	7.2E-02 A	7.1E-02 L02290.1	7.1E-02B	7.1E-02 AI125284.1	7.1E-02B	7.0E-02	7.0E-02 X96677.1	7.0E-02 A	
	Expression Signal	0.65	1.33	0.63	1.61	2.28	4.73	1.02	2.48	0.83	2.27	5.39	3.41	4.92	1.40	3.28	1.76	2.17	7.1	1.48	0.99	4.82	1.23	9	0.98	1.9	1.73	
	ORF SEQ ID NO:		32913	32930		35110	35216	35330	35384	35540	35637	35728			31013							27218	33898		72927		27967	
	_ <u>0</u>		20080	20077	l	22177		22381		22573	22674		22773	23131						24476		14699		23944			16544	
ľ	Probe SEQ ID NO:	6429	7611	7629	7655	9774	9872	8979	10035	10172	10273	10359	10373	10692	11737	11775	11837	11902	11915	12453	1865	2188	8566	11613	546	1528	2989	1000

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4056	16588	28978	1.13	7.0E-02	7.0E-02 BE070264.1	EST_HUMAN	QV4-BT0407-280100-090-e10 BT0407 Homo sapiens cDNA
4157			1.22	7.0E-02	7.0E-02 AW 792962.1	EST_HUMAN	CM0-UM0001-060300-270-e12 UM0001 Homo sapiens cDNA
4228	16754	29143	1.45	.7.0E-02	7.0E-02 AF077821.1	NT	Canis familiaris Inducible nitric oxide synthase mRNA, complete cds
8008		29892	9.56	7.0E-02	7.0E-02 BF381987.1	EST_HUMAN	601816291F1 NIH_MGC_58 Homo saplens cDNA clone IMAGE:4050071 5
5633			0.98	7.0E-02 Y		NT.	Lumbricus rubellus mRNA for cyclophilin B
7880			0.69	7.0E-02	V689285.1	EST_HUMAN .	AV689285 GKC Homo saplens cDNA clone GKCCAE08 5'
8133		33433	0.68	7.0E-02 Y		F	Gallus gallus mRNA for partial aczonin, XL spliced variant (acz gene)
9407		.	1.32	7.0E-02	9628113 NT	N.	Affican swine fever whis, complete genome
8762	22165	36098	1.32	7.0E-02 K	02901.1	Z	Rat ig germline epsilon H-chain gene C-region, 3' end
11129	23581	36622	2.52	7.0E-02	7.0E-02 AA724295.1	EST_HUMAN	ar89a05.s1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1327184.3' similar to gb:L14837 TIGHT JUNCTION PROTEIN ZO-1 (HUMAN);
532		25513	12.83	6.9E-02		. LN	Homo sapiens chromosome 21 segment HS21C010
532	13104	26514	12.83	6.9E-02	6.9E-02 AL163210.2	N _T	Hamo sapiens chromosome 21 segment HS21C010
1365	13889		1.54	6.9E-02	4507968 NT	NT L	Homo saplens regulator of Gz-selective protein signaling (ZGAP1) mRNA, and translated products
3795	16332	28733	1.54	6.9E-02 Q06364		SWISSPROT	28S PROTEASOME REGULATORY SUBUNIT S3 (NUCLEAR ANTIGEN 21D7)
3795	16332	28734	1.54	6.9E-02	6.9E-02 Q06364	SWISSPROT	26S PROTEASOME REGULATORY SUBUNIT S3 (NUCLEAR ANTIGEN 21D7)
6214			0.61	6.9E-02	6.9E-02 AF161364.1	LN	Hamo saplens HSPC101 mRNA, partial cds
8145	20568		7.0	6.9E-02	6.9E-02 AF164967.1	N	Canine distamper virus strain A75/17, complete genome
8670	21105		1.21	6.9E-02		NT	Human calmodulin (CALM1) gene, exons 2,3,4,5 and 6, and complete cds
8037	21469	34378	0.83	6.9E-02	6.9E-02 BE567435.1	EST_HUMAN	601340661F1 NIH_MGC_53 Homo saplens cDNA clone IMACE:3683030 5
9037	21469	34378	0.83	6.9E-02	6.9E-02 BE567435.1	EST_HUMAN	601340661F1 NIH_MGC_53 Homo sepiens cDNA clane IMAGE:3683030 5
11769	24047		3.75	6.9E-02	6.9E-02 X74315.1	LN LN	X.laevis XFD2 mRNA for fork head protein
12188			3.31	6.9E-02		NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
1886		26879	2.94	6.8E-02	6.8E-02 AF156673.1	N-	Homo saplans putative hepatic transcription factor (WBSCR14) gane, complete cds
4589	17105		0.72	6.8E-02	6.8E-02 BE141076.1	EST_HUMAN	MR0-HT0089-071099-001-c05 HT0069 Homo saplens cDNA
6982			9.0	8.8E-02 P20792		SWISSPROT	CELL-SURFACE RECEPTOR DAF-1 PRECURSOR
7307	19719		1.25	6.8E-02	BE061890.1	EST_HUMAN	RC1-BT0254-090300-017-409 BT0254 Homo sapiens cDNA
7737		33042	8.67	6.8E-02	AL163268.2	N	Hamo saplens chromosame 21 segment HS21 C068
8222		33531	0.74	6.8E-02	U16856.1	N	Dictyostatium discoldeum myosin heavy chain kinase A (MHCK A) mRNA, complete cds
8843		34187	6.61	6.8E-02		FX	Pyrococcus abyesi complete genome; segment 5/6
8843		34188	6.61	6.8E-02	.1	NT	Pyrococcus abyasi complete genome, segment 5/6
11525		36966	6.04			INT	S.pambe retrotransposon Tf1-107
11560	24936		1.9			EST_HUMAN	FB4A8 Fetal brain, Stratagene Homo sapiens cDNA clone FB4A8 S'end similar to LINE-1

Table 4
Single Exon Probes Expressed in Lung

	7	1	Т	Т	\top	7	T	Т	1	Ŧ	Т	Т	Т	Т	Т	Т	Т	T^-	Т	Т	Т	Т	Т	T	Т	Т	Т	Т	T
Top Hit Descriptor	ah67f05.s1 Soares testis NHT Homo sapiens cDNA clone 13207053'	Mus musculus latent TGF beta binding protein (Tafb), mRNA	Oncorhyndrus mykiss TAP1 protein (OnmyTAP1) mRNA. OnmyTAP1*01 allele complete cds	dg/79e04.x1 Scares NFL T GBC S1 Homo sablens cDNA clone IMAGE-184140831	HOMEOBOX PROTEIN HOX-D4 (CHOX-A)	Oyprinus carpio Rep1b mRNA, complete cds	Cyprinus carpio Rap1b mRNA, complete cds	NEUROFILAMENT TRIPLET L PROTEIN (68 KDA NEUROFILAMENT PROTEIN) (NEUROFILAMENT LIGHT POLYPEPTIDE) (NF-L)	af12e09.x1 Barstead acrts HPLRB6 Home sapiens cDNA cione IMAGE:2354920 3' similar to SW:LIN1 NYCCO P08548 LINE-1 REVERSE TRANSCRIPTASE HOMGI OG	Drosobila melanoasster cactin mRNA complete cds	Mus musculus Capar 2 gene for calpain 12 expas 1.21 three alternative transcripts	9/18b10.s1 Soares placenta Nb2HP Homo sapians cDNA clone IMAGE-139579 3	Homo saplens mesothelin (MSLN), transcript variant 1, mRNA	Homo saplens mesothelin (MSLN), transcript variant 1, mRNA	Homo sapiens TESTIN 2 and TESTIN 3 gangs, complete ods, alternatively enlined	INTER-ALPHA-TRYPSIN INHIBITOR HEAVY CHAIN H2 PRECLIRSOR (IT) HEAVY CHAIN H2)	INTER-ALPHA-TRYPSIN INHIBITOR HEAVY CHAIN H2 PRECURSOR (ITI HEAVY CHAIN H2)	274407.r1 Soares_testis_NHT Homo septiens cDNA clone IMAGE:728052 6' similar to gb:L04270 TUMOR NECROSIS FACTOR RECEPTOR 2 RELATED PROTEIN PRECLIRSOR (HI IMAN).	### ### ### ### ######################	Hepatitis GB virus A complete genome	P. vulgaris mRNA for chalcone synthase	MATERNAL EFFECT PROTEIN STAUFEN	qr41d01.x1 Soares_NFL_T_GBC_S1 Hamo sapiens oDNA clone IMAGE:1847233.31	Penicillium urticae mitochondrial I-RNA (large rRNA) gene and its flanking region	Homo sapiens chemokine receptor CXCR4 gene, promoter region and complete cds	Human respiratory syncytial virus, complete genome			
Top Hit Database Source	EST HUMAN		Ł	T HUMAN	Г	Г	N	SWISSPROT	EST HUMAN	Г		T HUMAN			NT	ISSPROT	SWISSPROT			Т	TN	ISSPROT		Г	Т	T_HUMAN	N L	NT	
Top Hit Acession No.	AA758014.1	9910585 NT	AF115536.1			U53783.1	J53783.1	907198	A1735509.1	AF245116.1			7108357 NT	7108357 NT	AF260225.1		Q61703	AA393244.1	VA393244.1	AF023424.1	(06411.1	P25169				1243326.1		F052572.1	9629198 NT
Most Similar (Top) Hit BLAST E Value	6.8E-02	6.8E-02	6.7E-02			6.7E-02	6.7E-02	6.7E-02	6.6E-02	8.6E-02	8.6E-02/	8.6E-02	6.6E-02	6.6E-02	6.6E-02			6.6E-02 A	6.6E-02 A	6.6E-02	6.6E-02	8.6E-02 F	1	6.6E-02 F	144	•		8.6E-02	6.6E-02
Expression Signal	2.4	2.56	2.02	1.31	4.95	0.72	0.72	3.32	1.36	1.82	212	11.47	2.81	2.81	1.73	11.71	11.71	0.64	0.64	2.55	3.04	0.52	0.52	0.78	0.78	0.69	0.73	1.75	1.08
ORF SEQ ID NO:	,			26870		28911	28912		26371	26392	27119	28401	28416	28417	29017	28950	29951	29988	29989	30276	32256	32289	32290	32289	32290	32519		33934	34632
Exan SEQ ID NO:	24001	24425	14083	14379			16503	17121	13916	13936	14602			15997			17584	17627	17627	17925	19476	19509	19509	19509	19509	19716	20895	21031	21725
Probe SEQ ID NO:	11697	12382	1551	1857	3715	3968	3968	4605	1380	1402	2088	3440	3453	3453	4098	5074	5074	5120	5120	5430	6937	6972	6972	7185	7185	7514	8482	8596	9293

1		_	т	_	_	т	т	T-	\top	-	_	_	\neg	_	Т	1	Т	т	Т		\top		Т	\neg	_	$\overline{}$	_	\neg		_	_
B. m	Top Hit Descriptor	Homo sapiens EWS, gar 22, rrp 22 and bam 22 genes	MR1-SN0064-010600-006-a12 SN0064 Homo saplens cDNA	Mus musculus DIPB gene (Dipb), mRNA	Rattus norvegicus cytochrome P450 2E1 (CYP2E1) gene. 6' flanking region	601671046F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3954178 5	Homo saplens E2F-like protein (LOC61270), mRNA	Xenopus laevis alpha(E)-catenin mRNA, complete cds	Aquifex aeolicus section 96 of 109 of the complete genome	Caenorhabditis elegans DNA for ryanodine receptor, complete ods	246h12.s1 Seares overy tumor NbHOT Homo septens cDNA clone IMAGE:756743 3' similar to gb:M28038	ACMARRATE MILL MCC ER LINE CONTROLL TO AN AND SELVE CHAIN (HUMAN);	Azotobaciar vinalandii ATCC 9048 basediise sosmildas Mines (m. 15)	7320551 Soares NHMMPu S1 Homo seriens CDNA clone MACE: ARRIVA 2	PM4-NN1043-340300-001-401-NN1043-Home semions of NNA	Rabbit microsomal enoxide hydrolese	Nectra harmatococca kinasin related avoidin 2 (KDD2) www.commissin.com	A carterae previous of paridials when while profess (DO) was	Mus musculus histone deacetylese 5 (Hdac5) mRNA	251e04.r1 Sogres_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:505470 5' similar to contains Au repelline element	1997b01x1 Soares_testis_NHT Homo sapiens cDNA done IMAGE:17382493' similar to contains LTR8.b3	Lino igheuwe elemeni; Mis misculie (EN recharge element bindios foctos 4 / 10E0E 4	Heteroders alvaines beta-1 4-endoning inspection (UNEDF-1), IIINVA	Heteroders alvaines beta-1 4-endontusenssa-1 precurent (HC-ang-1) gene, common and	We/3012.X1 Sogres Disckgrade colon NHCD Homocopiens CNN class (MACE: 2246200 st	601680425R2 NIH MGC 83 Home seriens cDNA clone IMAGE: 3540780 3	Nelsseria meninditidis seroaroup A strain 72491 complete genome: seroaro	Mus musculus chaperonin subunit 8a (zeta) (Coffa) mRNA	K1419.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 6	AF150195 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CRDAIA10	Homo sapiens mRNA for KIAA0554 protein, partial cds
	Top Hit Database Source	F	EST HUMAN	i.	F	EST_HUMAN	N FN	N	N	N.	H HAMAN	EST LIMAN	LN LN	EST HUMAN	EST HUMAN	LN	L	I _N	N	EST HUMAN	TOD LOD	NT TOWAR	L	NT	EST HUMAN	EST HUMAN	N L	N	EST_HUMAN	EST_HUMAN	N
	Top Hit Acession No.	Y07848.1	BF374248.1	9937991 NT	AF167430.1	BF027639.1	T708068 NT	U47624.1	AE000764.1	D45899.1	A A 443991 1	REGERGAO 4	U22661.1	AA195648.1	AW9041121	M21496.1	AF102993 1	X94549.1	6996923 NT	AA147572.1	A1404058 4	7305186 NT	AF052733.1		AI672896.1	BE974448.1	AL162757.2	8753323 NT	AA093305.1	İ	AB011128.1
	Most Similar (Top) Hit BLAST E Value	6.6E-02	6.6E-02	6.6E-02	6.6E-02		6.5E-02	6.5E-02	6.5E-02	6.5E-02	6.5F-02	-			-					6.4E-02	A 4E 00	_	_			6.4E-02	6.4E-02	_		_	
	Expression Signal	1.55	96.9	2.12	1.4	2.12	1.98	5.47	1.23	2.49	2.05	0.78	0.88	4.42	2.95	7.83	4.09	1.95	3.05	5.26	-	0.67	2.77	2.77	0.81	4.46	0.49	2.75	4.33	0.84	2.16
	ORF SEQ ID NO:	35470	36168							30194	31067			35864	36979			25565			30717	31439	31713	31714			33250		34450	34778	35185
	Exen SEQ ID NO:	22506		24302						17836	18403			22888	23896	23922	24160	13162	15528	17897	18291	18738	18980			1		1 1	21547	21859	22250
	Probe SEQ ID NO:	10105	10743	12182	12524	599	1013	1423	1729	5337	5823	6894	7389	10436	11539	11682	11959	592	2973	5400	5707	6170	6424	6424	6740	7208	7946	8879	9115	9427	9847

Expn NO: CRF SEQ ID ID NO: Expression Signal (Top) Hit (Top) Hit Value Top Hit Acession No. Top Hit Acession Source T							,	
23782 36853 2.58 6.4E-02 U91328.1 NT 24838 3.62 6.4E-02 AF107890.1 NT 24838 3.62 6.4E-02 AF107890.1 NT 24838 3.62 6.4E-02 AF107890.1 NT 14272 26757 1.21 6.3E-02 AF108905.1 NT 16139 3.02 6.3E-02 AF108905.1 NT 20136 31737 0.99 6.3E-02 AF182346.1 NT 20136 31737 0.99 6.3E-02 AF182346.1 NT 22026 1.05 6.3E-02 AF182346.1 NT 22026 1.05 6.3E-02 AF182346.1 NT 22026 1.09 6.3E-02 AF182346.1 NT 22026 1.09 6.3E-02 AF182346.1 NT 16182 27401 7.76 6.3E-02 AF181572.2 NT 16782 29175 4.76 6.2E-02 AL181572.2 NT 16782 29175 6.2E-02 AL181572.2 NT 16782 20175 0.08 6.2E-02 AL181572.2 NT 220501 33459 0.57 6.2E-02 AL181572.2 NT 220501 33459 0.57 6.2E-02 AL181645.2 NT 220501 33459 0.57 6.2E-02 AL181645.2 NT 220501 36020 2.44 6.2E-02 AL181645.2 NT 220501 36020 2.44 6.2E-02 AL181645.2 NT 220501 36020 2.44 6.2E-02 AL181645.1 NT 24869 0.55 6.2E-02 AL181645.1 NT 24860 0.55 6.2E-02 AL181645.1 NT 24860 0.55 6.2E-		Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
24782 36854 2.58 6.4E-02 U91328.1 NT 24838 3.62 6.4E-02 AJ277174.1 NT 24130 30865 2.06 6.4E-02 AJ277174.1 NT 14272 26757 1.21 6.3E-02 AF103905.1 NT 17980 1.05 6.3E-02 P37092 SWISSPROT 19005 31737 0.99 6.3E-02 P57092 SWISSPROT 22445 34882 1.05 6.3E-02 AF182346.1 NT 22446 36393 3.81 6.3E-02 AF182346.1 NT 22626 31737 2.78 6.3E-02 AV893070.1 EST_HUMAN 14883 27401 7.76 6.3E-02 AL161572.2 NT 16782 29175 4.79 6.3E-02 AL161572.2 NT 16782 29175 4.79 6.2E-02 AL161572.2 NT 17476 0.64 6.2E-02 AL16156.2 NT 20902 0.63 6.2E-02 AL16156.2 NT 220561 33459 0.97 6.2E-02 AL161545.2 NT 22057 36000 2.44 6.2E-02 AL161545.2 NT 220581 35020 1.38 6.2E-02 AL161545.2 NT 220581 35020 2.44 6.2E-02 AL247356.1 NT 220592 0.63 6.2E-02 AL161545.2 NT 220593 36000 2.44 6.2E-02 AL247356.1 NT 24868 NT	11431	23782	36853		6.4E-02	2	LN	Human hereditary hasmochromatosis region, histone 2A-like protein gene, hereditary hasmochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete ods
24838 3.62 6.4E-02 AF107890.1 NT 24130 30965 2.06 6.4E-02 AF108905.1 NT 14272 20757 1.21 6.3E-02 AF108905.1 NT 14272 20757 1.21 6.3E-02 P37092 SWISSPROT 15005 31737 0.39 6.3E-02 BF210736.1 NT 20156 34882 1.05 6.3E-02 BF210736.1 NT 2046 34882 1.05 6.3E-02 BF210736.1 NT 22445 35393 3.81 6.3E-02 AF182346.1 NT 22626 37401 7.76 6.3E-02 AF29016.1 NT 22626 31737 2.79 6.3E-02 AF29016.1 NT 16782 27401 7.76 6.2E-02 AF161646.2 NT 16782 29175 4.79 6.2E-02 AF271235.1 NT 1737 2.08 6.2E-02 AF271235.1 NT 20581 32719 0.7 6.2E-02 AF271235.1 NT 20581 33459 0.97 6	11431	23792			6.4E-02	U91328.1	TN	Human hereditary hasmochromatosis region, histone 2A-like protein gene, hereditary hasmochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
24130 30966 2.06 6.4E-02 AJ277174.1 NT 14272 26757 1.21 6.3E-02 AF109905.1 NT 16139 3.02 6.3E-02 P37092 SWISSPROT 16005 31737 0.99 6.3E-02 BF210736.1 NT 20136 31737 0.99 6.3E-02 AF182346.1 NT 20136 31737 0.99 6.3E-02 AF10736.1 NT 2046 35393 3.81 6.3E-02 AF182346.1 NT 22445 36393 3.81 6.3E-02 AF18236.1 NT 22445 36393 3.81 6.3E-02 AF18236.1 NT 22646 36393 3.81 6.3E-02 AF18048.1 NT 22646 36393 3.81 6.3E-02 AF18048.1 NT 22647 37401 7.76 6.2E-02 AF16156.2 NT 16782 29175 4.78 6.2E-02 AF216156.2 NT 1737 20.89 6.2E-02 AF21616.1 NT 20581 33459 0.97 6.2E	11855	24838		3.62	6.4E-02	AF107890.1	Į.	Homo saplens mucin 5B (MUC5B) gene, partial cds
14272 26757 1.21 6.3E-02 AF109905.1 NT 16139 3.02 6.3E-02 P37092 SWISSPROT 17980 1.05 6.3E-02 P37092 SWISSPROT 19005 31737 0.99 6.3E-02 BF210736.1 NT 20136 34882 1.02 6.3E-02 BF210736.1 NT 2195 34882 1.02 6.3E-02 BF210736.1 NT 22624 31737 2.79 6.3E-02 AF249916.1 NT 22624 31737 2.79 6.3E-02 AF240736.1 NT 4883 27401 7.76 6.2E-02 AL161546.2 NT 16782 29175 4.79 6.2E-02 AL161546.2 NT 1737 2.08 6.2E-02 AL161546.2 NT 174883 27401 7.76 6.2E-02 AL161572.2 NT 17476 0.64 6.2E-02 AL161572.2 NT 20581 33459 0.97 6.2E-02 AL161572.2 NT 20582 0.67 6.2E-02 AL161545.2 NT	11906	24130	30865		6.4E-02	AJ277174.1	TN	Drosophila melanogaster mRNA for mod(mdg4)51.4 protein
17980 3.02 6.3E-02 P37092 SWISSPROT 17980 1.05 6.3E-02 P37092 SWISSPROT 19005 31737 0.99 6.3E-02 BF210736.1 NT 20136 3.4882 1.02 6.3E-02 A57869.1 NT 22445 36393 3.81 6.3E-02 A570162.1 NT 22445 36393 3.81 6.3E-02 A5010162.1 NT 1903 6.3E-02 A58010162.1 NT NT 14883 27401 7.76 6.2E-02 AL161542.2 NT 16782 29175 4.76 6.2E-02 AL161542.2 NT 16782 29175 4.76 6.2E-02 AL161572.2 NT 1737 20.89 6.2E-02 AL161572.2 NT 17476 0.54 6.2E-02 AC705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 AC705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 AC705701.1 EST_HUMAN 20591 33459 0.97 6.2E-02 AC705701.1 NT	1745	14272	26757	1.21	6.3E-02	F109905.1	NT	Mus musculus major histocompatibility locus class III regions Hsc70t gene, partial cds; smRNP, G7A, NG23, MutS hornolog, CLCP, NG24, NG25, and NG28 genes, complete cds; and unknown genes
17980 1.05 6.3E-02 AF182346.1 NT 19005 31737 0.99 6.3E-02 BF210736.1 EST_HUMAN 20136 34882 1.02 6.3E-02 AS9869.1 NT 285-02 AS9869.1 NT 285-02 AS9869.1 NT 285-02 AS98070.1 EST_HUMAN 19005 31737 2.79 6.3E-02 AB010162.1 NT 4883 27401 7.76 6.3E-02 AL161648.2 NT 4889 27401 7.76 6.2E-02 AL161648.2 NT 4775 6.2E-02 AL161672.2 NT 50.69 6.2E-02 AL161672.2 NT 50.69 6.2E-02 AL161672.2 NT 50.69 6.2E-02 AL161672.2 NT 50.69 6.2E-02 AL161672.2 NT 50.69 6.2E-02 AL161645.2 NT 50.69 6.2E-02 AL161	3598	16139		3.02	6.3E-02	P37092	SWISSPROT	HEAT SHOCK PROTEIN 70 HOMOLOG
19005 31737 0.99 6.3E-02 BF210736.1 EST_HUMAN 20136 1.02 6.3E-02 X97869.1 NT 21959 3.4882 1 6.3E-02 X97869.1 NT 22445 36393 3.81 6.3E-02 A524916.1 NT 22445 36393 3.81 6.3E-02 A5040162.1 NT 19005 31737 2.78 6.3E-02 A161546.2 NT 14883 27401 7.76 6.2E-02 AL161572.2 NT 16782 29175 4.78 6.2E-02 AL161572.2 NT 16782 29175 4.78 6.2E-02 AL161572.2 NT 1737 20.89 6.2E-02 AL161572.2 NT 17476 0.64 6.2E-02 AL161572.2 NT 17476 0.64 6.2E-02 A7705701.1 EST HUMAN 10894 32749 0.7 6.2E-02 A7705701.1 EST HUMAN 20902 0.67 6.2E-02 A7705701.1 EST HUMAN 2091 33459 0.97 6.2E-02 A16666.2 NT <td>5485</td> <td>17980</td> <td></td> <td>1.05</td> <td>6.3E-02</td> <td>AF182346.1</td> <td>FX</td> <td>Yushania exilis NADH dehydrogenase (ndhF) gene, partial cds; chloroplast gene for chloroplast product</td>	5485	17980		1.05	6.3E-02	AF182346.1	FX	Yushania exilis NADH dehydrogenase (ndhF) gene, partial cds; chloroplast gene for chloroplast product
20136 1,02 6.3E-02 X97869.1 NT 21959 34882 1 6.3E-02 AJ243916.1 NT 22445 35393 3.81 6.3E-02 AJ243916.1 NT 22626 1.09 6.3E-02 AJ243916.1 NT 19005 31737 2.78 6.3E-02 AJ69670.1 EST HUMAN 16782 29175 4.76 6.2E-02 AL161572.2 NT 16782 29175 4.76 6.2E-02 AL161572.2 NT 1737 20.89 6.2E-02 AL161572.2 NT 17476 0.64 6.2E-02 AL161572.2 NT 17476 0.64 6.2E-02 AL161572.2 NT 17476 0.64 6.2E-02 AL161572.2 NT 20561 33459 0.67 6.2E-02 AV705701.1 EST HUMAN 20561 33459 0.97 6.2E-02 AV705701.1 NT 2057 3550 0.63 6.2E-02 AL161645.2 NT 2056 3600 2.44 6.2E-02 AL24735.1 NT 24968	6449	19005	31737		6.3E-02	BF210736.1	EST_HUMAN	601873316F1 NIH_MGC_54 Hamo sapiens cDNA clane IMAGE:4097499 5'
21959 34882 1 6.3E-02 AJ243916.1 NT 22445 35393 3.81 6.3E-02 AB010162.1 NT 22626 1.09 6.3E-02 AV698070.1 EST HUMAN 19005 31737 2.78 6.3E-02 AL161546.2 NT 14883 27401 7.76 6.2E-02 AL161572.2 NT 16782 29175 4.79 6.2E-02 AL161572.2 NT 16782 29175 4.79 6.2E-02 AL161572.2 NT 1737 20.89 6.2E-02 AL161572.2 NT 17476 0.69 6.2E-02 AL161572.2 NT 17476 0.69 6.2E-02 AV705701.1 EST HUMAN 19894 32719 0.7 6.2E-02 AV705701.1 EST HUMAN 20561 33459 0.97 6.2E-02 AV705701.1 EST HUMAN 20502 35620 0.63 6.2E-02 AV705701.1 NT 2051 35620 1.38 6.2E-02 AV705701.1 NT 24968 3600 2.44 6.2E-02 AV242735.1	7691	20136		1.02	6.3E-02	X97869.1	NT	H.saplens gene encoding La autoantigen
22445 35393 3.81 6.3E-02 AB010162.1 NT 22626 1.09 6.3E-02 AV698070.1 EST_HUMAN 19005 31737 2.78 6.3E-02 BF210736.1 EST_HUMAN 14883 27401 7.76 6.2E-02 AL161548.2 NT 16782 29175 4.78 6.2E-02 AL161572.2 NT 16782 29175 4.78 6.2E-02 AL161572.2 NT 1737 20.89 6.2E-02 AL161572.2 NT 17476 0.64 6.2E-02 AC705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 AV705701.1 EST_HUMAN 20561 33459 0.97 6.2E-02 AV705701.1 EST_HUMAN 20502 0.97 6.2E-02 AV705701.1 EST_HUMAN 20501 33459 0.97 6.2E-02 AV705701.1 NT 20502 35620 1.38 6.2E-02 AV705701.1 NT 20503 36600 2.44 6.2E-02 AV705701.1 NT 24968 3600 2.44 6.2E-	9544	21959	34882	1	6.3E-02	AJ243916.1	TN	Drosophila melanogaster Domina gene, exons 1-3
22626 1,09 6.3E-02 AV688070.1 EST_HUMAN 19005 31737 2.78 6.3E-02 BF210736.1 EST_HUMAN 14883 27401 7.76 6.2E-02 AL161648.2 NT 16782 29175 4.76 6.2E-02 AL161672.2 NT 16882 1.13 6.2E-02 AL161672.2 NT 1737 20.89 6.2E-02 AF271235.1 NT 17476 0.84 6.2E-02 AV705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 AV705701.1 EST_HUMAN 20581 33459 0.97 6.2E-02 AV705701.1 EST_HUMAN 20902 0.87 6.2E-02 AV705701.1 NT 20902 0.87 6.2E-02 AV705701.1 NT 24868 0.87 6.2E-02 AV705701.1 NT 24868 0.87 0.87 <td>10043</td> <td>22445</td> <td>35393</td> <td></td> <td>6.3E-02</td> <td></td> <td>N-</td> <td>Hepatitis G virus RNA for polyprotein (NS5A region), partial cds, strain: CMR-152</td>	10043	22445	35393		6.3E-02		N-	Hepatitis G virus RNA for polyprotein (NS5A region), partial cds, strain: CMR-152
19005 31737 2.78 6.3E-02 BF210736.1 EST_HUMAN 14883 27401 7.76 6.2E-02 AL161546.2 NT 16782 29175 4.76 6.2E-02 AL161572.2 NT 16882 1.13 6.2E-02 AL161572.2 NT 17137 20.89 6.2E-02 G52191 SWISSPROT 17476 0.84 6.2E-02 AV705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 AV705701.1 EST_HUMAN 20581 33459 0.97 6.2E-02 AV705701.1 EST_HUMAN 20902 0.97 6.2E-02 AV705701.1 INT 20902 0.97 6.2E-02 AV705701.1 INT 20902 0.97 6.2E-02 AV1653.1 NT 20902 1.38 6.2E-02 AL161645.2 NT 23559 38600 2.44 6.2E-02 AL261645.2 NT 24868 0.87 6.2E-02 AL26735.1 NT	10225	22828			6.3E-02		EST_HUMAN	AV698070 GKC Homo sapiens cDNA clone GKCAHE01 5
14883 27401 7.76 6.2E-02 AL161546.2 NT 16782 29175 4.76 6.2E-02 AL161572.2 NT 16882 1.13 6.2E-02 AL161572.2 NT 17137 20.89 6.2E-02 AC705701.1 SWISSPROT 17476 0.84 6.2E-02 AV705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 AV705701.1 EST_HUMAN 20581 33459 0.97 6.2E-02 AV705701.1 INT 20902 0.87 6.2E-02 AV705701.1 INT 20902 0.97 6.2E-02 AV705701.1 INT 20902 0.87 6.2E-02 AV705701.1 INT 20902 0.87 6.2E-02 AV705701.1 INT 20902 0.87 6.2E-02 AV705701.1 INT 24868 3600 2.44 6.2E-02 AV705701.1 INT 24868 3600 2.44 6.2E-02 AV705701.1 INT	10501	19005	31737		١,	ım.	EST_HUMAN	601873316F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4097499 51
16792 29175 4.70 6.2E-02 AL161572.2 NT 16882 1.13 6.2E-02 AF271235.1 NT 17137 20.89 6.2E-02 G62191 SWISSPROT 17476 0.84 6.2E-02 AV705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 AV705701.1 EST_HUMAN 20581 33459 0.97 6.2E-02 D49530.1 NT 20902 0.63 6.2E-02 AL161545.2 NT 22091 35020 1.38 6.2E-02 AL161545.2 NT 23559 38600 2.44 6.2E-02 AL26735.1 NT 24868 8.22 6.2E-02 AL26735.1 NT	2378	14883	27401		6.2E-02	AL161546.2	N	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 46
16882 1.13 6.2E-02 AF271235.1 NT 17137 20.89 6.2E-02 Q62191 SWISSPROT 17476 0.64 6.2E-02 AV705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 D49530.1 NT 20581 33459 0.97 6.2E-02 D49530.1 NT 20902 0.97 6.2E-02 D41463.1 NT 22091 35020 1.38 6.2E-02 AL161545.2 NT 23559 38600 2.44 6.2E-02 AL2735.1 NT 24868 8.22 6.2E-02 AL2735.1 NT	4267	16792	29175		6.2E-02		NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 68
16882 1.13 6.2E-02 AF271235.1 NT 17137 20.89 6.2E-02 Q62191 SWISSPROT 17476 0.84 6.2E-02 AV705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 D49530.1 NT 20581 33459 0.97 6.2E-02 D49530.1 NT 20902 0.63 6.2E-02 AL161645.2 NT 23559 38600 2.44 6.2E-02 AL24735.1 NT 24868 8.22 6.2E-02 AL24735.1 NT 24868 8.22 6.2E-02 AL24735.1 NT								Rattus norvegicus differentation-associated Na-dependent inorganic phosphate cotransporter (DNPI) mRNA,
17137 20.89 6.2E-02 (962191) SWISSPROT 17476 0.84 6.2E-02 AV705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 D49530.1 NT 20581 33459 0.97 6.2E-02 L41483.1 NT 20902 0.63 6.2E-02 AL161645.2 NT 22091 35020 1.38 6.2E-02 AL161645.2 NT 23559 38600 2.44 6.2E-02 AL24735.1 NT 24868 8.22 6.2E-02 AL24735.1 NT	4360	16882		1.13			Ä	complete cds
17476 0.64 6.2E-02 AV705701.1 EST_HUMAN 19894 32719 0.7 6.2E-02 D49530.1 NT 20581 33459 0.97 6.2E-02 D41453.1 NT 20902 0.63 6.2E-02 AL161545.2 NT 22091 35020 1.38 6.2E-02 AL161545.2 NT 23559 38600 2.44 6.2E-02 AL2735.1 NT 24868 8.22 6.2E-02 AL2735.1 NT	4821	17137		20.89			SWISSPROT	52 KD RO PROTEIN (SJOGREN SYNDROME TYPE A ANTIGEN (SS-A)) (RO(SS-A)) (RO52)
19894 32719 0.7 6.2e-02 D49530.1 NT 20581 33459 0.97 6.2e-02 U41463.1 NT 20902 0.63 6.2e-02 A1161545.2 NT 22091 35020 1.38 6.2e-02 A1161545.2 NT 23559 38600 2.44 6.2e-02 A1242735.1 NT 24868 8.22 6.2e-02 A227735.1 NT	4965	17476	•		6.2E-02	٠.	EST_HUMAN	AV705701 ADB Home saplens cDNA clone ADBBAB03 5'
20581 33459 0.97 6.2E-02 U41463.1 NT 20902 0.63 6.2E-02 AL161645.2 NT 22091 35020 1.38 6.2E-02 AL161645.2 NT 23559 36600 2.44 6.2E-02 AL26736.1 NT 24668 8.22 6.2E-02 AL26736.1 NT 24668 6.22-02 AL26736.1 NT	7181	19894	32719		6.2E-02		IN	Spirulina platensis DNA for adenylate cyclase, complete cds
20902 0.63 6.2E-02 AL161645.2 NT 22091 35020 1.38 6.2E-02 6677898 NT 23559 38600 2.44 6.2E-02 AJ242735.1 NT 24969 8.22 6.2E-02 AE000760.1 NT	8158	20581	33459		6.2E-02	_	NT	Rattus norvegicus PKC binding protein and substrate mRNA, complete cds
22091 35020 1.38 6.2E-02 6677898 NT 23559 38600 2.44 6.2E-02 AJ242735.1 NT 24869 8.22 6.2E-02 AE000750.1 NT	8480	20902			6.2E-02	-	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 46
23559 36600 2.44 6.2E-02 AJ242735.1 NT 24969 8.22 6.2E-02 AE000760.1 NT 24784 24784 6.2E-02 AE000760.1 NT	6296	22091	35020		6.2E-02		NT	Mus musculus stromat cell derived factor receptor 2 (Sdfr2), mRNA
24969 8.22 6.2E-02 AE000760.1 NT	11106	23559	38600		6.2E-02	AJ242735.1	NT	Metarhizium anisopliae mRNA for Chymotrypsin (chyri gene)
NAME OF THE PARTY	11684	24969		8.22	6.2E-02	AE000750.1	TN	Aquifex aeolicus section 82 of 109 of the complete genome
STECT SUBSET SUS GIEF-UZIBETITESSET EST_POINTIN	12129	24264	30932	3.63	6.2E-02	BF112039.1	EST_HUMAN	7/37h08.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3523815 3' similar to TR:09Y4S6 09Y4S6 HYPOTHETICAL 30.3 KD PROTEIN. [1];

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Probe SEQ ID S NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
269	12867	25284	7.6	6.1E-02	16471.1	NT	Human mRNA, Xq terminal portion
4005	16539		9.78	6.1E-02 U	73325.1	NT	Arabidopsis thaliana K+ Inward rectifying charmel protein (AtKC1) gene, complete cds
4699	17215	28585	1.05	6.1E-02	6.1E-02 AF119413.1	LN	Lupinus albus 1-aminocyclopropane-1-carboxylate synthase 3 (ACS3) gene, complete cds
4699	17215	29596	1.05		6.1E-02 AF119413.1	N _T	Lupinus albus 1-aminocyclopropane-1-carboxylate synthase 3 (ACS3) gene, complete cds
5382	17879		2.71			EST_HUMAN	qg90e08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1842470 3'
6231	18796	31504		6.1E-02	7662463 NT	FZ	Homo sapiens KIAA1052 protein (KIAA1052), mRNA
6231	18796	31505	0.51	6.1E-02	7662463 NT	N	Homo sapiens KIAA 1052 protein (KIAA 1052), mRNA
2000	70007						Homo saplens SWVSNF related, matrix associated, actin dependent regulator of chromatin, subfamily a,
8425	18981	10000	1.72	1.		Į.	member 3 (SMARCA3) mRNA
080	5002	32887	0.54	-	1	Z	Homo saplens AFG3L1 gene, exon 2
8824	21258	34163	3.62	١	6.1E-02 X99268.1	L'A	H.sapiens mRNA for B-HLH DNA binding protein
10514	22983	36942	3.55			EST_HUMAN	IL3-HT0618-110500-136-C06 HT0618 Homo saplens dDNA
11638	24877		11.24			NT	S Japonicum mRNA for serine-enzyme
12402	24437		4.95			NT	Homo sapiens chromosome 21 segment HS21C007
1295	13830	26279	1.41	6.0E-02	6.0E-02 AE001777.1	TN	Thermotoga maritima section 89 of 136 of the complete genome
2615	15110	27626	5.99	6.0E-02		EST_HUMAN	EST380924 MAGE resequences, MAGJ Homo sapiens cDNA
2731	15221		1 82		6 0F-02 AB031289 1	Į.	Mescoestoides corti mitochondrial DNA, NADH dehydrogenase subunit 4, tRNA-Gin, tRNA-Phe, tRNA-Met, ATP see subunit 6, and NADH dehydrogenase subunit 2
2890	12717	25130	108			FST HIMAN	2078c04.1 Stratanene Hel a cell 83 937216 Home seniens cDNA clone IMAGE-628310 5
2890	12717	25131	1.08		6.0E-02 AA188730.1		2078c04.r1 Stratagene HeLa cell s3 937216 Homo saplens cDNA clone IMAGE:626310 6
3188	15741	28162	1.83	6.0E-02		EST HUMAN	EST84266 Colon adenocarcinoma IV Homo saplens cDNA 5' end similar to tissue-specific protein
3188	15741	28163	1.83	6.0E-02		EST_HUMAN	EST84268 Colon adenocarcinoma IV Homo sapiens cDNA 5' end similar to tissue-specific protein
3634	16174		0.62			EST_HUMAN	601658150R1 NIH_MGC_68 Homo saplens cDNA clone IMAGE:3876060 3'
5065	17575	29944	1.1	6.0E-02		ĻΝ	Streptococcus pneumonlae parC, parE and transposase genes and ORF DNA
5654	18240		0.67	6.0E-02		EST_HUMAN	RC3-BT0253-011199-013-b04 BT0253 Hamo sapiens cDNA
							wf48h05.x1 Scares_NRT_GBC_S1 Homo septens cDNA clone IMAGE:2358873 3' similar to contains
6533	18085	31826	0.89		807537.1	EST_HUMAN	L1.t1 L1 L1 repetitive element ;
7406	18074	30367	2.86		5174698 NT	NT	Homo sapiens stimulated trans-acting factor (50 kDa) (STAF50) mRNA
7405	18074	30368	2.86		5174698 NT	NT	Homo saplens stimulated trans-acting factor (50 kDa) (STAF50) mRNA
7632	20079	32932	2.43		6.0E-02 BF382349.1	EST_HUMAN	601815274F2 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4049226 5'
7748	20192	33063	0.44	6.0E-02		EST_HUMAN	601874710F1 NIH_MGC_54 Homo saplens cDNA clone IMAGE:4101074 5'
8218	20838	33528	1.93	6.0E-02	6.0E-02 AI204275.1	EST_HUMAN	qf68b08.x1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1754199 3'
8947	21380				11466495		Reclinomonas americana mitochondrion, complete genome
9529	21944	34866	0.94	6.0E-02 AI	623167.1	EST_HUMAN	ts78a06.x1 NCI_CGAP_GC6 Home saplens cDNA clone IMAGE:2237362 3'

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No	Top Hit Database Source	Top Hit Descriptor
9529	21944				AI623167.1	EST_HUMAN	Is78a08.x1 NCI_CGAP_GC6 Homo septens cDNA clone IMAGE:2237362 3'
9623	22038	34971	1.85	6.0E-02	AJ245365.1	NT	Achenser baeri partial IGLV gene for Immunoglobulin light chain variable region, exons 1-2
623	22038	34972	1.85	6.0E-02	AJ245365.1	١	Acipenser baeri partial IGLV gene for Immunoglobulin light chain variable region, exons 1-2
11905	24129	30964	1.23	6.0E-02	11431702 NT	TN	Homo sapiens DNA-dependent protein kinase catalytic subunit-interacting protein 2 (KIP2), mRNA
12328	24397		2.69	6.0E-02	AI809273.1	EST HUMAN	wf69h03.x1 Soares_NPL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:2360885 3' similar to TR:060298 O60298 KIAA0551 PROTEIN;
241	12842	25255		5.9E-02	AW934719.1	EST HUMAN	RC1-DT0001-280100-012-e10 DT0001 Hamo saplens cDNA
2938	16493	27915	2.95	5.9E-02	AF190269.1	N	Mus musculus p63 tumor suppressor gene, exon 10 and 11, partial cds; altematively spliced
4831	17442	29819	1.64	5.9E-02	AF006304.1	N	Seccharomyces cerevislae protein tyrosine phosphatase (PTP3) gene, complete cds
7298	24627				AF145680.1	F	Drosophila melanogaster LD23107 sting (sting) mRNA, complete cds
9080	21512	34421	2.68	5.9E-02	9055249 NT	TN	Mus musculus iroquois related homeobox 5 (Drosophila) (Irx5), mRNA
9655	20948		0.97	5.9E-02	BF242748.1	EST_HUMAN	601877609F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4105994 6:
10587	23014		2.05		6679870 NT	۲N	Mus musculus follistatin-like (Fett), mRNA
657	13509		5.45	5.8E-02	D90110.1	N	Thiobacilius ferrooxidans merC, merA genes and URF-1
3662	16202		1.84	5.8E-02	AE001775.1	N	Thermotoga martima section 87 of 136 of the complete genome
4376	16898	29280	4.47	5.8E-02	AW051927.1	EST_HUMAN	wx24c02.x1 NCI_CGAP_Kid11 Hamo sapiens cDNA clone IMAGE:2544578 3'
4378	16898		4.47	5.8E-02	AW051927.1	EST_HUMAN	wx24c02.xt NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE:2544678 3'
4583	17099	29488	5.06	6.8E-02	AI247505.1	EST HUMAN	qh56f01x1 Soares fetal_liver_spleen_1NFLS_S1 Homo septens cDNA clone IMAGE:1848697.3' similar to gb:M13142 COAGULATION FACTOR XI PRECURSOR (HUMAN);
4583	17099	29489	5.08			EST HUMAN	ob56001 x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saptens cDNA clone IMAGE:1848697 3' similar to ab-M13142 COAGULATION FACTOR XI PRECURSOR (HUMAN):
4812	17128		1.92	5.8E-02	AF096264.1	N	Gallus gallus brosine kinase JAK1 (JAK1) mRNA, complete cds
6202				5.8E-02	AA190994.1	EST_HUMAN	本86a11.s1 Stratagens HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627068 3'
8216	1	33525			M99150.1	NT	Human polymorphic microsataliite DNA
8216			2.77		M99150.1	TN	Human polymorphic microsatellite DNA
11792	24059		. 2.18		AF220177.1	INT	Drosophila melanogaster male fruitless type-A (fru) mRNA, complete ods
12104	24955		6.12	5.8E-02	AA604269.1	EST_HUMAN	no/5e11.s1 NCI_CGAP_AA1 Hamo saplens cDNA clone IMAGE:1112684 3'
3018	15573	27984	1.32	8.7E-02	A1081644.1	EST HUMAN	ou63b06.s1 NCI_CGAP_Br2 Homo seplens cDNA done IMAGE:1632465 3' similar to WP:C37A2.2 CE08611 :
3032	15587	27998	1.19		AF119117.1	NT	Homo saplens dopamine transporter (SLC8A3) gene, complete cds
3704	16245		0.64	6.7E-02	AF001292.1	N L	Chironomus thummi thummi globin VIIA.1 (ctt-7A.1), globin 9.1 (ctt-9.1), globin II-beta (ctt-2beta), non- functional globin XIII (ctt-13RT), globin XII (ctt-12) and globin XI (ctt-11) genes, complets cds
3806	Į Į	28744		5.7E-02	AW966791.1	EST_HUMAN	EST378865 MAGE resequences, MAGI Homo sepiens cDNA
4733	17248		0.95		M95099.1	N	Bos taurus lysozyme gene (cow 3), complete cds

	Top Hit Descriptor	Mus musculus gene for DNA helicase Q1, complete cds	Homo sapiens ABCA1 (ABCA1) gene, complete cds	601447937F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3851985 5	Г		Xenopus laevis mRNA for fourth component of complement, complete cds	Rattus norvegicus mRNA for potassium channel, alpha subunit (N/9.2 gene)		co18b09.v1 Normal Human Trabecular Bone Cells Homo seniens cDNA clone NHTRC 2018-00-00-00-00-00-00-00-00-00-00-00-00-00	Г	Homo sepiens Xd pseudoautosomal region: segment 1/2	Homo conjone for ill noish ned reduction (COD) and realist at	Pen troclodytes apolinoprotein-Frene commisted cos	1/64d10.s1 Soares breast 2NbHBst Hamo sapiens cDNA clone IMAGE:153523 3' similar to contains 1.1		Lycopersicon esculentum LE-ACS6 mRNA for 1-eminocyclopropane-1-carbox/ate synthese, complete cds	Г			od47f12.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1371119.3' similar to contains Atu_ repetitive element-contains element 11 renefitive element -	Т		Т	Г	Т	
五字	Database Source	NT	Ā	EST_HUMAN	EST HUMAN	NT.	N	TN	EST_HUMAN	EST HUMAN	Į.	LZ LZ		Į.		EST_HUMAN	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN
Ton H# Accepton	No.	AB017105.1	5.7E-02 AF275948.1	BE871911.1	BE871911.1	D78003.1	₽78003.1	AJ296090.1	5.7E-02 AI752685.1	5.7E-02 AI752685.1	D50320.1	AJ271735.1	AE217490 1	AF261280.1		5.7E-02 R48513.1	6.6E-02 AB013100.1	5.6E-02 AA290599.1	6.6E-02 AA873479.1	AW172708.1	AA866182 1	5.6E-02 BE008001.1	5.6E-02 Al983738-1	Al 183583.1	BE542663.1	5.6E-02 BE542663.1	5.6E-02 AA482864.1
Most Similar	BLAST E	5.7E-02	5.7E-02	6.7E-02	6.7E-02	5.7E-02	6.7E-02	5.7E-02	5.7E-02	5.7E-02	5.7E-02	5.7E-02	5 7E-02 A	5.7E-02 A		5.7E-02	6.6E-02	5.6E-02	6.6E-02	5.6E-02	5.6E-02	5.6E-02	5.6E-02	5.6E-02	5.8E-02	6.6E-02	5.6E-02
Foression	Signal	1.64	0.86	0.59	69.0.	0.71	0.71	1.7	4.02	4.02	8.05	127	217	6.38		1.22	1.62	1.33	0.89	4.64	1.35	3.81	0.63	0.65	2.06	2.06	1.38
ORESEO	Ö NÖ:	30147					33358	34077	36403	36404						30843		29640	29745	32349	32612	32890	32908	33769	34558	34559	35246
Exam	SEQ ID NO:	l		20395			1	21174	23392	23382	24762	24307	24832	24944	l	24550	17202	17260	17360	19562	19801	20041	20054	20869	21648	21648	22303
Probe	SEQ ID NO:	5280	6167	7959	7959	8051	8051	8740	10963	10963	12009	12187	12268	12418		12568	4686	4746	4848	7028	7298	7592	7605	8456	9216	9216	9901

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11316			2.11	5.6E-02 A	F260225.1	NT	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced
2591		27601	4.13	5.5E-02)	97869.1	NT	H. saplens gene encoding La autoantigen
3173		28147	4.1	5.5E-02	6755501 NT	NT	Mus musculus SH3 domain protein 18 (Sh3d1B), mRNA
5928			3.15	5.5E-02 Q01174		SWISSPROT	TROPOMYOSIN ALPHA CHAIN, NON MUSCLE
6320			4.24	5.5E-02 Q01174	Q01174	SWISSPROT	TROPOMYOSIN ALPHA CHAIN, NON MUSCLE
7851	20291	33154	1.94	5.5E-02	6755902 NT	FX	Mus musculus tuftelin 1 (Tuft), mRNA
8717		34057	0.85	8.5E-02 A	F170911.1	N	Homo sapiens sodium-dependent vitamin C transporter 1 (SVCT1) mRNA, complete ods
8717	21152	34058	0.85	5.5E-02	5.5E-02 AF170911.1	N	Homo saplens sodium-dependent vitamin C transporter 1 (SVCT1) mRNA, complète cds
9864	22267	35206	1.38	6.6E-02		. LN	Mus musculus second IL11 receptor alpha chain (IL11Ra2) gene, exons 1 and 2
							Citrobacter freundii DSM 30040 cyclopropane fatty acid synthase (cfa) gene, partial cds, dihydroxyacetone kinase (dhaK), glycerol dehydrogenase (dhaD), transcriptional activator (dhaR), 1,3-procenediol
10797	23234		6.9	5.6E-02	U09771.1	N P	dehydrogenase (dhaT), giycerol dehydratase (dhaB) >
12594	24907	30452	1.25	5.5E-02	11421332 NT	F	Homo saplens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
2979			26.0	5.4E-02	5.4E-02 AJ277468.1	NT	Oryza sativa rbbl3-1 gene for putative Bowman Birk trypsin inhibitor
3400			10.5	5.4E-02	5	EST_HUMAN	RC5-BT0559-140200-012-C03 BT0559 Homo sapiens cDNA
3923		28866	0.76	6.4E-02		NT	Hirudo medicinalis SNAP-25 homolog mRNA, complets eds
8720	21155		1.02	5.4E-02		NT	Bacillus subtilis complete genome (section 13 of 21); from 2395261 to 2613730
10486	22836	35914	1.86	5.4E-02	5.4E-02 U20790.1	Į.	Neurospora crassa ubiquinol-cytochrome c oxidoraductase subunit VIII (OCRR) mRNA complete cite
11892	24745		2.08	5.4E-02	Π	N	Rana catesbiana heat shock protein 30 (HSP30) mRNA, complete cds
1079	13625	26064	1.54	5.3E-02	5.3E-02 AW391248.1	EST HUMAN	QV0-ST0213-021299-062-e09 ST0213 Homo saplens cDNA
1079	13626	26065	1.54	5.3E-02	Г	EST HUMAN	QV0-ST0213-02/299-062-e09 ST0213 Homo saplens cDNA
1533	14065	26526	· +	5.3E-02 T	T94759.1	EST HUMAN	ye37f12.r1 Stratagene lung (#897210) Homo sapiens cDNA clone IMAGE:118951 5' similar to gb:K01508 HLA CLASS II HISTOCOMPATIBILITY ANTIGEN DP(1) AI PHA CHAIN (HIMAN).
2402	14906	27424	7.78	6.3E-02	J276408.1	NT	Pseudomonas putida ttgS gene
2896		27876	0.98	5.3E-02 M		NT	Drosophila melanogaster laminin B2 gene, complete cds
2896		27877	0.98	5.3E-02	5.3E-02 M58417.1	Į.	Drosophila melanogaster laminin B2 gene, complete cds
3111		28076	4.39	6.3E-02		TN	Pseudomonas putida ttgS gene
4849	17361	29746	1.22	5.3E-02	5.3E-02 AL161535.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 35
5220	17722	30089	8.0	5.3E-02	5.3E-02 AB051897.1		Mus musculus Scya6, Scya9, Scya16-ps, Scya5 genes for small Inducible cytokine A6 precursor, small inducible cytokine A9 precursor. Scya18 psaudonene small inducible cytokine A6 precursor. Scya18 psaudonene small inducible cytokine A6 precursor.
5222	17724	30091	96.6	5.3E-02	Π	LX	Mus musculus caudal two homeobox-1 (Cdx-1) gene, complete orls
6572	L	30524	2.28	5.3E-02	5.3E-02 AE000527.1	L	Helicobacter pylori 26695 section 5 of 134 of the complete genome
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Probe SEQ ID NO: 00: 17531 77289 17531 77289 12160 3075 3075 3075 3075 3075 3075 3075 307		유	Signal Signal Signal Signal Signal Signal 3.71 1.14 1.14 1.14 1.67 8.75 8.75 8.75 8.75 8.76 8.76 8.76 8.76 8.76 8.76 8.76 8.76		Top Hit Acession No. No. AE000527.1 NIT 885289.1 NIT 885289.1 NIT 872822.1.1 NIT 872822.1.1 NIT 87276816.1 NIT 8727681.1 NIT 87277681.1 NIT 8728020.2 NIT 8728020.1 NIT 8728020.1 NIT 8728020.1 NIT 8728020.1 NIT 8728020.1 NIT 8728030.1 NIT 8738030.1	Top Hit Database Source Source NT NT NT NT NT NT NT NT NT NT NT NT NT	Top Hit Describtor Helicobecter pyori 26906 section 6 of 134 of the compiete genome Human haperan sulfate proteoglyzae (HSPGZ) mRNA, complete des Human haperan sulfate proteoglyzae (HSPGZ) mRNA, complete des Human haperan sulfate proteoglyzae (HSPGZ) mRNA, complete des Human haperan sulfate proteoglyzae (HSPGZ) mRNA, complete des Heemophilus influenzae Rd section 147 of 183 of the complete genome Heemophilus influenzae Rd section 147 of 183 of the complete genome Heemophilus influenzae Rd section 147 of 183 of the complete genome Prodospora anserina mitochondrial epalken-sen DNA S.ceravisiae chromosome VII reading frame ORF VGR170w Branchiostoma fibridom mitochondrial epalken-sen DNA S.ceravisiae chromosome VII reading frame ORF VGR170w Homo sapiens partial LMOI gene for LIM domain only I protein, exon 1 Arabidopais thaliana putative dicarboxylate diliron protein (Crd1) mRNA, complete des Saccharicamycae crevisiae Cdc54p (CDC34) gene, complete cds MGR16 repetitive element; MDN POLVINERASE FROCESSIVITY FACTOR (POLYMERASE ACCESSORY PROTEIN) (PAP) (DNA- BINDING GENA KI NC) CGAP Lym12 Homo sapiens cDNA clone IMAGE:2400150 3' similar to contains MER15 repetitive element; Iumip mosaic virus genomic RNA for Capsid protein, complete cds VOLANOGETATE DECARBOXYLASE ALPHA CHAPIN GVALNOGETATE CARBOXYLASE ALPHA CHAPIN GVALNO
9899 10164 10610 10610		35243 36631 36038 36039			AF012898.1 P40603 AF083930.1 AF083930.1	NT SWISSPROT NT NT	Candida albicans protein phosphatase Ssd1 fromdog (SSD1) gene, complete cds ANTER-SPECIFIC PROLINE-RICH PROTEIN APG (PROTEIN CEX) Homo sapiens ES18 mRNA, pertial cds Homo sapiens ES18 mRNA, pertial cds
12159	24285		2.24	6.1E-02	AF062467.1	NT	Cucumis melo polygalacturonase precursor (MPG3) mRNA, complete cds

		I		/PRP.	T	I				Γ	Γ	Γ		Ī					1	1									l				
onigre Exon Flores Expressed III Luig	Top Hit Descriptor	Mus musculus fatty acid amide hydrolase gene, expn 10	Bacillus subtilis complete gename (section 1 of 21); from 1 to 213080	SALIVARY ACIDIC PROLINE-RICH PHOSPHOPROTEIN 1/2 PRECURSOR (PRP-1/PRP-3) (PRP-2/PRP- 4) (PIF-FIPIF-S) (PROTEIN APROTEIN C) [CONTAINS: PEPTIDE P-C]	Oryctolagus cuniculus UDP-glucuronosyltransferase (UGT2B13) mRNA, complete ods	Mus musculus Uno-61 like kinase 2 (C. elegans) (Ulk2), mRNA	Heemophilus Influenzae Rd section 97 of 163 of the complete genome	Antheraea pernyl period clock protein homolog mRNA, complete cds	CASEIN KINASE II BETA CHAIN (CK II)	Homo sapiens ubiquitous tetratricopeptide containing protein RoXaN mRNA, partial cds	Gallus gallus tyrosine kinase JAK1 (JAK1) mRNA, complete cds	Mus musculus Dmp-1 gene, exons 1-8	NEUROFICAMENT TRIPLET L PROTEIN (NEUROFILAMENT LIGHT POLYPEPTIDE) (NF-L)	NEUROFILAMENT TRIPLET L PROTEIN (NEUROFILAMENT LIGHT POLYPEPTIDE) (NF-L)	MRo-CT0064-100899-002-910 CT0064 Homo sapiens cDNA	Mus musculus Fas-interacting serine/threonine idnase 3 (Fist3) mRNA, complete cds	Methanococcus Jannaschii section 142 of 150 of the complete genome	NO-ON-TRANSIENT A PROTEIN	Chicken 28-kDa vitamin D-dependent caloium-binding protein (CaBP-28) mRNA, complete cds	Homo saplens ABCA1 (ABCA1) gene, complete cds	Homo sapiens ABCA1 (ABCA1) gene, complete cds	Zea mays phytoene synthase (Y1) gene, complete cds	ATROPHIN-1 (DENTATORUBRAL-PALLIDOLUYSIAN ATROPHY PROTEIN)	2q48a12.s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA chone IMAGE:632926 3' similar to	278e03.s1 Sogres testis NHT Homo saciens cDNA clone IMAGE:728428.3'	#78a03.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:728428 3	Drosophila melanogaster developmental protein (rough) gane, complete cds	xg56g10.x1 NCI_CGAP_Ut4 Homo sepiens cDNA clane IMAGE:2632388 3'	xg56g10.x1 NCI_CGAP_Ut4 Homo septens cDNA clone IMAGE:2632386 3'	Thermotoga maritima section 86 of 138 of the complete genome	Rat elastase II gane, exon 6	Rat elastase II gene, exon 6	Archaeoglobus fulgidus section 127 of 172 of the complete genome
אום וייסעיין פול	Top Hit Database Source	LN LN	NT	SWISSPROT	NT.	·	NT	N.	SWISSPROT	Ν̈́	TN	N	SWISSPROT	SWISSPROT	EST_HUMAN	NT	NT	SWISSPROT	ΙN	TN	NT	. LN	SWISSPROT	EST HIMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	EST_HUMAN	NT	LN.	ᅥ	NT
	Top Hit Acession No.	AF098004.1	299104.1	P02810	_	305610	U32782.1	U12769.2				AJ242625.1		P35616	AW062464.1	AF305238.1	U67600.1	Q04047 ·			3.1	1	P54258	AA188940 1	Τ	Γ		AW167821.1	AW167821.1	AE001774.1			AE000980.1
	Most Similar (Top) Hit BLAST E Value	5.0E-02		6.0E-02	6.0E-02	6.0E-02	6.0E-02	6.0E-02	6.0E-02	5.0E-02	5.0E-02	6.0E-02		5.0E-02	_		_	6.0E-02		4.9E-02		4.9E-02	4.9E-02	4 PF-02	-	-	_	4.9E-02	4.9E-02	4.9E-02			4.9E-02
	Expression Signal	2.52	2.82	3.51	1.37	1.49	1	6.64	0.93	1.78	0.79	1.01	0.52	11.82	0.51	1.3	2.82	5.39	35.01	3.81	3.81	77.0	5.83	0.84	1.91	1.01	1.17	1.93	1.93	6.11	1.63	1.63	1.04
	ORF SEQ ID NO:	25490	26220	26955				28631			31731			33356			36658						28218		28538				29782				32878
	Exan SEQ ID NO:	13074	13773	14453	13564	15858	16131	16223											12833				15801	16101	ıl.	16128	16833	17409				_	20031
	Probe SEQ ID NO:	500	1235	1834	2777	3310	3589	3683	4878	5062	6443	6636	7408	8050	8286	10176	11247	11649	232	384	384	2827	3250	3559	3584	3584	4308	4898	4898	6438	5626	5626	7582

Top Hit Descriptor	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 69	Homo sapiens prepro placental TGF-beta gene, complete cds	Homo sapiens GS box-containing WD protein (LOC55884), mRNA	Human gamma-B-crystallin (gamma 1-2) and gamma-C-crystallin (gamma 2-1) genes, complete cds	Human mRNA, Xq terminal portion	Human mRNA, Xq terminal portion	Arabidopsis thaliana AP2 domain containing protein RAP2.7 mRNA, partial cds	zz49b02.s1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:325611 3' similær to gb:M30938 LUPUS KU AUTOANTIGEN PROTEIN P86 (HUMAN);	Tetrahymena rostrata histone H3II and histone H4II intergento DNA	Streptococcus constellatus D-alanine:D-alanine ligase gene, partiai cds	MR2-ST0129-221099-012-b02 ST0129 Homo sapiens cDNA	MR0-BN0070-180200-001-f08 BN0070 Homo sapiens cDNA	yz9709.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:291017 5 similar to contains Alu	repetitive element;	602143554F1 NIH_MGC_46 Hamo sepiens cDNA clone IMAGE:4304772 5	602143554F1 NIH_MGC_46 Homo saplens cDNA clone IMAGE:4304772 5'	Rat statin-related protein (s1) gene, complete CDS	Homo saplens protein x 0001 (LOC51185), mRNA	B.taurus mRNA for RF-38-DNA-binding protain	H.saplens DNA for endogenous retroviral like element	Gallus gallus Wpkci-8 gene, complete cds	B.taurus mRNA for RF-36-DNA-binding protein	AV648521 GLC Homo sapiens cDNA clone GLCBKD023'	HOMEOBOX PROTEIN GBX-2 (GASTRULATION AND BRAIN-SPECIFIC HOMEOBOX PROTEIN 2)	Homo sepiens partial TUB gene for tubby (mouse) homolog and LMO1 gene for LIM domain only 1 protein	PM0-HT0339-251199-003-g05 HT0339 Homo saplens cDNA	Escherichia coll K-12 MG1655 section 335 of 400 of the complete genome	am50d02.s1 Johnston frontal cortex Homo septens cDNA clone IMAGE:1538979 3' similar to TR:P90533 P90533 LIMA ;contains element LTR1 repetitive element;	AV727059 HTC Hamo septens cDNA done HTCBWC01 5'
Top Hit Database Source	NT TN	H		H		H H	NT A		L L	Г	EST_HUMAN N	EST_HUMAN N			EST_HUMAN 6		NT R			H		NT N	EST_HUMAN A	SWISSPROT	Į.	T HUMAN	T	EST_HUMAN P	Γ
Top Hit Acession No.	161659.2	AF008303.1	8923880 NT	19364.1			4.8E-02 AF003100.1		4.8E-02 X17144.1		4.8E-02 AW388497.1	4.7E-02 AW998984.1		4.7E-02 W01153.1	4.7E-02 BF686625.1	4.7E-02 BF686625.1	M62752.1	11431896 NT	X15543.1	X89211.1	4.7E-02 AB026678.1	4.7E-02 X15543.1	AV648521.1	4.7E-02 P52951	4 7E-02 A 1277662 1	BE153583.1	4.6E-02 AE000445.1	4.6E-02 A1014255.1	4.6E-02 AV727059.1
Most Similar (Top) Hit BLAST E Value	4.9E-02 AI	4.9E-02	4.9E-02	4.9E-02	4.8E-02	4.8E-02	4.8E-02	4.8E-02	4.8E-02	4.8E-02	4.8E-02	4.7E-02		4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4 7F-02	4.6E-02	4.GE-02	4.6E-02	4.6E-02
Expression Signal	1.06	3.96	2.85	3.72	1.53	3.07	9:38	1.42	2.5	17.0	1.36	0.91		3.4	0.77	77.0	1.75	0.51	9.73	1.32	3.31	78.7	1.64	2.1	1.64	0.6	3.04	1.09	3.42
ORF SEQ ID NO:	34522	36576			25351			27208	28142	30167	34068				32604		32543		34151			34852					25749		26383
Exan SEQ ID NO:	21611	23537	24226	24417	12836	12935	13080	14684	15720	17801	21163	<u> </u>		19835	19795	19795			21247		21757	21928	24967	24959	24519	<u>i_</u>	L	1	13925
Probe SEQ ID NO:	9179	11156	12072	12366	34	345	909	2173	3167	5301	8728	5287		7223	7290	7290	7327	8266	8813	9310	9325	8497	11873	12256	12521	284	760	1324	1391

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2391		27413	2.69	4.6E-02 AV	AW236023.1	EST_HUMAN	xn24f03.x1 NCI_CGAP_KId11 Homo septens cDNA clane IMAGE:2694663 3' similar to SW:GRF1_HUMAN Q12849 G-RICH SEQUENCE FACTOR-1;
2766		25299	1.43	4.6E-02	4.6E-02 BE153583.1	EST_HUMAN	PM0-HT0339-251199-003-905 HT0339 Homo saplens cDNA
2966				4.6E-02	4.6E-02 BE153583.1	EST_HUMAN	PM0-HT0339-261199-003-g06 HT0339 Homo saplens cDNA
3301			89:0	4.6E-02	BE153583.1	EST_HUMAN	PM0-HT0339-251199-003-905 HT0339 Homo sapiens cDNA
3472		27942	0.71	4.6E-02	4.6E-02 BE153583.1	EST_HUMAN	PM0-HT0339-251199-003-g05 HT0339 Homo saplens cDNA
4140	16668		1.31	4.6E-02	AF220365.1	N	Mus musculus nucleolar RNA helicase II/Gu (ddx21) gene, complete cds
ango	10507	94.260		100	7 00002 03		Haplochromis burtoni gonadotropin-releasing hormone and GnRH-associated peptide precursor (Gnrh2)
6549	1_		3.18			Z	gene, complete cds C reinhardtii and fethBl mBNA
6249	1_	Ŀ	3.18		4.6E-02 X61624.1	IN.	Creinhardtii ato Z (ato 8) mRNA
7408	40807		8	20 70 7			qc60b06.x1 Scares, placenta, 8to9weeks, 2NbHP8tc9W Home saplens cDNA clone IMAGE:1713971 3'
8447			3.5	4.0E-02 AT	A11485/4.1	ESI HOMAN	Similar to contains L1.03 L1 repetitive element;
9108	L.	L	3.61	4.0E-02	RF15400	EST HIMAN	Natiwa norvegicus Cerrepsin H (Cish), mKVA PMA-HT0330 pigna Cara HT0330 bigga Cara cara cara cara cara cara cara car
11158			3.34	4.6E-02	Γ	EST HUMAN	ol27h09.s1 Soares NFL T GBC S1 Homo seniens cDNA clone IMAGE-1524797 3
12230	24954		123	4.6E-02			Oryctolagus cuniculus macrophage scavenger receptor type II mRNA, complete ods
12485			3.64	4.6E-02		IN	Human germiline Immunoglobulin lambda light chain gene
464			2.35	4.5E-02	4.5E-02 P22448	SWISSPROT	RETINOIC ACID RECEPTOR BETA (RAR-BETA)
1249	j	26233	1.37	4.5E-02		N	Marburg virus strain M/S. Africal Johannesburg/1976/Ozolin VP35 gene, complete cds
1249	ı		1.37	4.5E-02		N	Marburg virus strain M/S. Africa/Johannesburg/1976/Ozolin VP35 gene, complete cds
1780	\perp		3.91	4.5E-02	4.5E-02 P32182	SWISSPROT	HEPATOCYTE NUCLEAR FACTOR 3-BETA (HNF-3B)
2031			1.18	4.6E-02	AE003964.1	. IN	Xyfella fastidiosa, section 110 of 229 of the complete genome
3721	16261	28666	2.8	4.5E-02 AL	AL163278.2	INT	Hamo sapiens chramosame 21 segment HS21C078
6551	19103	31847	1.00		AJ400877.1	TN	Homo sapiens ASCL3 gene, CEGP1 gene, C11 orf14 gene, C11 orf15 gene, C11 orf16 gene and C11 orf17 gene
6857	19397	32173	1.01	4.5E-02 AL1	AL163280.2	TN	Homo saplens chromosome 21 segment HS21C080
7283	19788	32597	0.64	4.6E-02	4.5E-02 L26487.1		Methanosarcina frista carbon monoxide dehydrogenase large subunit (cdhiA) gene; carbon monoxide dehydrocenasa small subunit (cdhiR) care, complete cde
7283	19788	32598	0.64	4.6E-02	4.5E-02 L26487.1	LN	Methanosarcina frisia carbon monodde dehydrogenase large subunit (cdhIA) gene, carbon monoxide dehydrogenase smell subunit (cdhIB) care, comnide cds
8927		34274	2.5	4.5E-02	7	N	Arabidopsis thaliana CCAAT-box binding factor HAP3 homelog cannolete cols
8888	22401	35351	4.32	•		EST HUMAN	EST28167 Cerebellum II Homo saplens cDNA 6' end similar to similar to neuro-D4 protein
10189		35556	0.92	$ \ $	4.6E-02 AB000470.1	NT	Gallus gallus mRNA for alpha1 integrin, complete cds

			332493 5'					te cds; and S171 gene,	te cds; and S171 gene,								ORF2) genes, complete								S						
Single Excit Flobes Expressed III Lung	Top Hit Descriptor	Homo sapiens ret finger protein-like 3 (RFPL3), mRNA	zq43f11.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632493 5	601652154F1 NIH MGC_82 Hamo saplens cDNA clane IMAGE:3935388 5'	HYPOTHETICAL PROTEIN (ORF 2280)	QV2-PT0012-010300-070-g02 PT0012 Homo saplens cDNA	Myzococcus xanthus serine/threonine kinase Pkn10 (pkn10) gene, complete cds	Homo sapiens S164 gene, partial ods, PS1 and hypothetical protein genes, complete ods, and S171 gene, partial ods	Homo sapiens S164 gene, partial ods, PS1 and hypothetical protein genes, complete ods; and S171 gene, partial ods	Ovis aries CCAAT-enhancer binding protein epsilon gene	Petunia x hybrida flavonoid 3' 5'-hydroxylase (Hf1) gene, complete cds.	Canis familians matrix metalloproteinase 9 (MMP-9) mRNA, partial cds	Carts familians matrix metalloproteinase 9 (MMP-9) mRNA, partial cds	Homo sapiens hypothetical protein PRO2492 (PRO2492), mRNA	Homo saplens hypothetical protein PRO2492 (PRO2492), mRNA	nw13h03.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1239221 3'	Hepatitis E virus strain HEV-US2 polyprotein (ORF1), (ORF3), and capsid protein (ORF2) genes, complete	ae33f04.7 Gessler Wilms tumor Homo sepiens cDNA clone IMAGE:897831 F	Homo sapiens mRNA for KIAA1493 protein, partial cds	601878748F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107418 5	Morone saxatilis myosin heavy chain FM3A (FM3A) mRNA, complete cds	Homo saplens chromosome 21 segment HS21C078	Homo sapiens chromosome 21 segment HS21C078	Homo sapiens chromosome 21 segment HS21C010	Homo sapiens promyelocytic leukernia zinc finger protein (PLZF) gene, complete cds	PLECTIN	PLECTIN	ns69c12.s1 NCI_CGAP_Pr2 Homo saplens cDNA clone IMAGE:1188886	Yeast para-aminobenzoate synthase gene, complete cds	H.sapiens NCAM mRNA for neural cell adhesion molecule	H.saplens NCAM mRNA for neural cell adhesion molecula
שוני ביוטט פונ	Top Hit Database Source		EST HUMAN	Г	Г	Г	Т	Ł	Į							EST_HUMAN	Į.	T HUMAN		T-		NT	Į.		LN	SWISSPROT		EST_HUMAN r	Г	NT IN	IN.
illo	Top Hit Acession No.	11418013 NT	AA191097.1		P31568	75.1		AF109907.1	AF109907.1					25868	11525868 NT	AA736969.1	A FORDARO 4					AL163278.2						4A652268.1	16289.1	K55322.1	X55322.1
	Most Similer (Top) Hit BLAST E Value	4.5E-02		4.4E-02	4.4E-02			4.4E-02	4.4E-02 /	-	•		4.4E-02	4.4E-02	4.4E-02	4.4E-02	4 45-00			4.4E-02	_	4.3E-02	_		4.3E-02				4.3E-02 L		4.3E-02
	Expression Signal	1.6	4.55	12.15	5.57	2.54	1.68	1.04	1.04	0.96	1.44	0.59	0.59	0.59	0.59	2.52	2.89	6.25	1.92	1.41	10.06	5.44	5.44	9.33	1.19	6.35	5:35	0.73	0.47	1.27	1.27
	ORF SEQ ID NO:	66606						29564	29565		30280	32849	32850	33674	33675	34519	36277	36413			25797	27333	27334	28365		32160	32161	32440		34556	34557
	Exan SEQ ID NO:	24113		12829			16179	17187	17187	17308	17941	20007	20007	20776	20776	21609	23286	23403	23820	24970	13362	14816	14816	15952	16198	19386	19386	19644	20874	21647	21647
	Probe SEQ ID NO:	11870	12299	227	2019	2393	3639	4671	4671	4794	5448	7667	7557	8361	8361	9177	10853	10974	11578	11771	8	2308	2300	3407	3658	6845	6845	7111	8461	9216	9215

							0
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
889	13444		2.37	4.2E-02	AU123327.1	EST_HUMAN	AU123327 NT2RM2 Homo septens cDNA clone NT2RM2000020 6'
818	13473	25921	1.41	4.2E-02	AW003645.1	EST HUMAN	wx34g01.x1 NCI_CGAP_Pit1 Homo saplens cDNA clone IMAGE:2545584 3' similar to TR.063291 Q63291 L1 RETROPOSON, ORF2 MRNA ;contains L1.t3 L1 L1 repetitive element:
1717	14245		1.02	4.2E-02	AL445066.1	TN	Thermoplasma acidophilum complete genome; segment 4/5
3663	16203	28609	1.75		P23091	SWISSPROT	TRANSFORMING PROTEIN MAF
5885	18464	31140	0.83	4.2E-02	AF280107.1	TN	Homo septens cytochrome P460 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P460 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
5885		31141	0.83	4.2E-02	AF280107.1	IN	Homo saplens eytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
7400			8.97	4.2E-02	BE268286.1	EST HUMAN	601124596F1 NIH MGC 8 Homo saplens cDNA clone IMAGE: 2989319 5'
8033			3.95	4.2E-02	AF276762.1	TN	Legionella pneumophila catalase-peroxidase (katA) gene, complete cds
8059			0.78	4.2E-02	AV730347.1	EST_HUMAN	AV730347 HTF Homo sepiens cDNA clone HTFAVH04 5'
8221			4.42	4.2E-02	P05095	SWISSPROT	ALPHA-ACTININ 3, NON MUSCULAR (F-ACTIN CROSS LINKING PROTEIN)
10158	22559	35527	1.35	4.2E-02	Q16650	SWISSPROT	T-BRAIN-1 PROTEIN (T-BOX BRAIN PROTEIN 1) (TBR-1) (TES-56)
10820	23266		5.64	4.2E-02	AA976118.1	EST_HUMAN	on33b11.s1 NCI_CGAP_Lu5 Homo septiens cDNA clone IMAGE:1558461 3' similar to gb:M65290 INTERLEUKIN-12 BETA CHAIN PRECURSOR (HUMAN):
11076			3.54	4.2E-02	BE815822.1	EST_HUMAN	PM3-BN0174-250500-009-d10 BN0174 Homo saplens cDNA
11076		36530	3.54			EST_HUMAN	PM3-BN0174-250500-009-d10 BN0174 Homo saplens cDNA
12164	_]					EST_HUMAN	wt48g10.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2510850 3'
528	_	25512				NT	Homo sapiens HPS1 gene, intron 5
4507			9.94				QV1-NN0012-180400-164-f06 NN0012 Homo saplens cDNA
5911			1.11		BE251894.1		601107535F1 NIH_MGC_16 Hamo saplens cDNA clane IMAGE:3343856 6'
29.11		31172	1.11	_	BE251894.1	EST_HUMAN	601107535F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3343856 6'
7287			0.98		X75881.1	NT	A thallana mRNA for plasma membrane intrinsic protein 1a
7538			1.1	4.1E-02	AE002132.1	TN	Ureaplasma urealyticum section 33 of 59 of the complete genome
89	20451	33322	1.93	4.1E-02	7662347 NT	NT	Homo sapiens KIAA0887 protein (KIAA0867), mRNA
			1				Mus musculus proviral retroviral insertion in the cGMP-phosphodiesterase (rd beta PDE) gene, intron 1, with
9719	70557	33427	0.85	4.1E-02	L02110.1	NT	the provinal insert encompassing the env pseudogene (3' end) and 3' LTR
				•			Fugu rubripes neural cell adhesion molecule L1 homolog (L1-CAM) gene, complete cds; putative protein 1
8321			3.28	4.1E-02	AF026198.1	N	(PUT1) gene, partial cds; mitosis-specific chromosome segregation protein SMC1 homolog (SMC1) gene, complete cds; and calcium channel alpha-1 submit>
9441	Ш	34790	1.04		AA372398.1	T_HUMAN	EST84291 Colon adenocarcinoma IV Homo saplens cDNA 5' and

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
12509			15.92	4.1E-02 A	J271909.1	L	Brassica napus gln gene for plastid glutamine synthetase, exons 1-12
3203		28173	3.26	4.0E-02	4.0E-02 AB040904.1	Ę	Homo sapiens mRNA for KIAA1471 protein, partial cds
3803			0.99	4.0E-02	4.0E-02 L11910.1	N	Human retinoblastoma susceptibility gene exons 1-27, complete cds
5289	17789	30164	0.71	4.0E-02	4.0E-02 AB042297.1	NT	Homo saplens PTS gene for 8-pyruvoy/tetrahydropter(in synthase, complete cds
5635	18222	30622	6.01	4.0E-02		LN	Homo saplens cytochrome P450 polypeptide 43 (CYP3A43) gane, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) ganes, complete cds; and cytochrome P450 polypeptide 7 (CYP3A7) ganes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
6531	19083	31824	1.06	4.0E-02 B	BF110434.1	EST_HUMAN	7n52h07xf NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3588380 3: similar to TR:075288 075285 R26124_1.;
8228		33539	6.17	4.0E-02 L	23838.1	N	Strongylocentrotus purpuratus homolog of human bone morphogenetic protein 1 (submp) mRNA, complete cds
8304			0.5	4.0E-02	4.0E-02 AL161535.2	N	Arabidopsis thaliana DNA chromosome 4, contin fracment No. 35
8322			0.94		B000381.1	N	Homo sapiens DNA for GPI-anchared malecule-like protein, complete cals
8322	ı		0.94	4.0E-02 A	B000381.1	NT	Hamo saplens DNA for GP-Lanchared malecule-like protein, camplete cals
8376	3 20780	33689	0.46	4.0E-02	4.0E-02 AF288153.1	TN	Hamo sapiens erythrocyte trapomodulin (E-TMOD) gene, exan 7
9147	21579	34485	2.98	4.0E-02 P08640	P08640	SWISSPROT	GLUCOAMYLASE 81/82 PRECURSOR (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE)
9785			0.87	4.0E-02	4.0E-02 BF679376.1	EST HUMAN	602153884F1 NIH, MGC 83 Homo saplens cDNA clone IMAGE:4294724 5'
9809		35149	2.42	4.0E-02	4.0E-02 AJ000941.1	N	Methanobacterium thermosutotrophicum strain Marbura. Thickfumarate reductase subunit A
10022			1.04	4.0E-02		Į.	Human mRNA for KIAA0082 gene, partial cds
11480	۱	.	1.68	4.0E-02		NT	Kluyveromyces lactis gene for Ca++ ATPase
11758	- }		10.84	1		ΝT	Ovis aries mRNA for acetyl-coA carboxylase
1147	_1	26132	3.56		3.9E-02 BF516149.1	EST_HUMAN	UI-H-BW1-anx-h-08-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084134 3'
1376			2.66	3.9E-02		SWISSPROT	FAS ANTIGEN LIGAND
1910	14428	26926	9.	3.9E-02		NT	M.musculus DNA for desmin-binding fragment DesD7
2653			6.28	3.9E-02	4508862 NT	TN	Homo saplens euccinate dehydrogenase complex, subunit C, integral membrane protein, 15kD (SDHC) mRNA
5160		30052	1.19		U61380.1	NT	Bacillus megaterium germination protein (gerAA, gerAC, gerAB) genes, complete cris
5160			1.19	3.9E-02	161380.1	NT	Badillus megaterium germination protein (gerAA, gerAB) genes, complete eds
5316			99.0	3.9E-02 A	W392417.1	EST HUMAN	RC8-ST0258-171199-021-C09 ST0258 Homo sablens cDNA
5334	l		26.0	3.9E-02	8924019 NT	N-	Homo sapians hypothetical protein PRO1163 (PRO1163), mRNA
5334		30192	76.0	3.9E-02	8924019 NT	LN	Homo saplens hypothetical protein PRO1163 (PRO1163), mRNA
5470			2:32	3.9E-02 Y15802.1		NT	Hordeum vulgare Ss2 gene
6756	18337	30782	0.82	3.9E-02	3.8E-02 D50608.1	LN L	Rat gene for cholecystokinin type-A receptor (CCKAR), complete cds

Top Hit / N N N N N N N N N N N N N N N N N N	Selon Top Hit Database Source Source NT EST HUMAN EST HUMAN NT EST HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	Rat gene for cholecystokinin type-A receptor (CCKAR), complete cds 601649874F1 NIH_MGC_74 Homo saptens cDNA clone IMAGE:3933642 6' 602138132F1 NIH_MGC_83 Homo saptens cDNA clone IMAGE:4274910 6' 601140729F1 NIH_MGC_81 Homo saptens cDNA clone IMAGE:4134779 6' 601140729F1 NIH_MGC_64 Homo saptens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_64 Homo saptens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_64 Homo saptens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_67 Homo saptens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_75 Homo saptens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_75 Homo saptens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_75 Homo saptens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_75 Homo saptens cDNA finked lymphocyte regulated 6 gene, Zinc finger protein 92, mmxq28crf Human protein C gene, complete cds HOMEOBOX PROTEIN HOX-84 (HOX-26) Homo saptens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95897 Falls I Homo saptens cDNA 6' end
60608.7 67520 677520 677520 677520 677520 607525 607525 607525 60877 60875 60875 60876 608776 60876 60876 60876 60876 60876 60876 60876 60876 608776 60	NT EST_HUMAN EST_HUMAN SWISSPROT EST_HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	Rat gene for cholecystokinin type-A receptor (CCKAR), oomplete ods 801649874F1 NIH_MGC_74 Homo sapiens cDNA done IMAGE:3838642 6' 802138132F1 NIH_MGC_83 Homo sapiens cDNA done IMAGE:3049830 5' 801140729F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:4134779 5' ANTIGEN GOR 801908848F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:4134779 5' Fells catus G-CSF gene for granulocyte colony-stimulating factor, complete cds Human germline T-cell receptor beta chain TCRBV15141T, TCRBV281, TCRBV10S1P, TCRBV14S1, TCRBV19S1P, TCRBV451A1T, TRY4, TRY5, TRY6, TRY9, TCRBV281P, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY9, TRY9, TCRBV181, TCRBV182, Mue musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zino finger protein 22, mmxq28crf Human protein G gene, complete cds HOMEOBOX PROTEIN HOX-B4 (HOX-26) Homo sapiens ATP-binding cassette; sub-family A (ABC1), member 8 (ABCA8), mRNA EST95937 Testis I Homo sapiens cDNA 5' end
696884 697520 69752961 723961 10284 10284 10284 10284 1038270 10284 103826 104395 104395 104395 104395 10594	EST_HUMAN EST_HUMAN SWISSPROT EST_HUMAN NT NT NT NT SWISSPROT SWISSPROT SWISSPROT SWISSPROT NT	601649874F1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933642 6' 602138132F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274910 6' 601140729F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4134779 6' 601906848F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4134779 6' Felis catus G-CSF gene for granulocyte colony-stimulating factor, complete cds Human germline T-cell receptor beta chain TCRBV175141T, TCRBV281, TCRBV381, TCRBV14S1, TCRBV381, TCRBV48141T, TRY4, TRY5, TRY6, TRY7, TRY9, TCRBV181, TCRBV14S1, TCRBV381, TCRBV48141T, TRY4, TRY5, TRY9, TRY9, TCRBV181, TCRBV182,> Mus musculus chromosome X contigB; X-linked lymphocyte regulated 6 gene, Zino finger protein 22, mmxq28crf Human protein C gene, complete cds HOMEOBOX PROTEIN HOX-84 (HOX-26) Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95937 Testis I Homo sapiens cDNA 6' end
647520 127143 46778 123961 10284 10284 10284 10284 10284 10284 10284 103826	EST_HUMAN SWISSPROT EST_HUMAN NT NT NT NT SWISSPROT SWISSPROT SWISSPROT NT	602138132F1 NIH_MGC_83 Homo sepiens cDNA clone IMAGE:4274910 6'. 601140729F1 NIH_MGC_9 Homo sepiens cDNA clone IMAGE:3049830 5' ANTIGEN GOR 601909848F1 NIH_MGC_54 Homo sepiens cDNA clone IMAGE:4134779 6': 601909848F1 NIH_MGC_54 Homo sepiens cDNA clone IMAGE:4134779 6': Felis catus G-CSF gene for granulocyte colony-stimulating factor, complete cds Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV14S1, TCRBV18S1P, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY9, TCRBV34S1, TCRBV14S2, Mus musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zino finger protein 27, Zino finger protein 92, mmxq28orf Human protein C gene, complete cds HOMEOBOX PROTEIN HOX-B4 (HOX-26) Homo sepiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95937 Testis I Homo sepiens cDNA 6' end
48778 1023961 1023961 10236 10236 10236 10236 10237 10237 103327 103327 10332 103	EST_HUMAN SWISSPROT EST_HUMAN NT NT NT STOO NT EST_HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	601140729F1 NIH_MGC_9 Homo sepiens cDNA clone IMAGE:3049830 5' ANTIGEN GOR 601909848F1 NIH_MGC_54 Homo sepiens cDNA clone IMAGE:4134779 5' 601909848F1 NIH_MGC_54 Homo sepiens cDNA clone IMAGE:4134779 5' Felis catus G-CSF gene for granulocyte colony-stimulating factor, complete cds Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV14S1, TCRBV18S1P, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY9, TCRBV11S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY9, TRY9, TCRBV11S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY9, TRY9, TCRBV11S1, TCRBV18S2, Mus musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zino finger protein 22, mmxq28orf Human protein C gene, complete cds HOMEOBOX PROTEIN HOX-B4 (HOX-26) Homo sepiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95937 Testis I Homo sepiens cDNA 5' end
48778 F23961 56061.1 56061.1 10284 10284 10284 19137 1984806 301826 301826 301826 301826 301826 301826	SWISSPROT EST HUMAN NT NT NT SWISSPROT SWISSPROT NT	ANTIGEN GOR 601906848F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4134779 5' 601906848F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4134779 5' Felis catus G-CSF gene for granulocyte colony-stimulating factor, complete cds Human germline T-cell receptor beta chain TCRBV151A1T, TCRBV281, TCRBV10S1P, TCRBV29S1P, TCRBV19S1P, TCRBV34S1, TCRBV14S1, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV3S1, T
56061.1 66061.1 10284 11228.7 10284 11228.1 19287 193827 19137 1984806 19844 132406	NT NT NT NT STOOL NT SWISSPROT STOOL NT NT NT NT NT NT NT STOOL NT NT NT NT NT SWISSPROT SWISSPROT SWISSPROT SWISSPROT SWISSPROT EST HUMAN	601906848F1 NIH_MGC_54 Homo saplens cDNA clone IMAGE:4134779 67 Fells catus G-CSF gene for granulocyte colony-stimulating factor, complete cds Fells catus G-CSF gene for granulocyte colony-stimulating factor, complete cds Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV29S1P, TCRBV34S1, TCRBV14S1, TCRBV18S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV3S2, Mus musculus chromosome X contigB; X-linked lymphocyte regulated 6 gene, Zino finger protein 22, mmxq28cof Human protein C gene, complete cds HOMEOBOX PROTEIN HOX-B4 (HOX-26) Homo saplens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST9583T Testis I Homo saplens cDNA 6 end
904255 904255 90486 11228 11228 10284 14581.1 984806 984806 901826 91286 1132400	NT NT NT SWISSPROT SWISSPROT SWISSPROT NT NT NT NT SWISSPROT SWISSPROT	Fells catus G-CSF gene for granulocyte colony-stimulating factor, complete cds Human germline T-cell receptor beta chain TCRBV1S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV29S1P, TCRBV18S1P, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBV19S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBV1S1, TCRBJ1S2, Mus musculus chromosome X contigB; X-linked lymphocyte regulated 6 gene, Zino finger protein 92, mmxq28orf Human protein G gene, complete cds HOMEOBOX PROTEIN HOX-B4 (HOX-2.6) Home septens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95897 Testis I Home septens cDNA 6 end
66061.1 04986 11228.1 10284 10284 19137 19137 19844 132400 100006	NT NT STOO INT EST_HUMAN NT NT NT NT STOOM NT NT NT SWISSPROT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV29S1P, TCRBV19S1P, TCRBV19S1P, TCRBV19S1P, TCRBV19S1P, TCRBV19S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, Mus musculus chromosome X contigB; X-linked lymphocyte regulated 6 gene, Zinc finger protein S2, mmxq28crf finger protein S2, mmxq28crf Human protein C gene, complete cds HOMEOBOX PROTEIN HOX-B4 (HOX-26) Home septens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95837 Testis I Homo septens cDNA 5′ end
04986 11228. 10284 10284 10284 10284 1937 19137 19137 19137 19137 19137 191326 191326 191326 191326 191326 191326	NT NT SWISSPROT STOOD INT EST_HUMAN NT NT NT NT NT EST_HUMAN	TCRBV3S1, TCRBV4S1A1T, TRY4, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, Mus musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zino finger protein 275, Zino finger protein 62, mmxq28orf Human protein C gene, complete cds Homen protein C gene, complete cds HOMEOBOX PROTEIN HOX-B4 (HOX-26) Homo sepiens ATP-binding cassetts; sub-family A (ABC1), member 8 (ABCA8), mRNA EST95931 Homo sepiens cDNA 6′ end
04986 10284 10284 10284 10284 113240 10384 13240 13240 13240 13240 13240 13240	NT SWISSPROT SET HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	Mus musculus chromosome X contigB; X-linked lymphocyte regulated 6 gene, Zinc finger protein 275, Zinc finger protein 92, mmxq28crf Human protein G gene, complete cds HOMEOBOX PROTEIN HOX-84 (HOX-2.6) Home septens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95937 Testis I Home septens cDNA 6 end
04986 11228. 11228. 10284 1438270 18137 18137 181386 113240 200006	NT SWISSPROT STOOL OT EST_HUMAN NT NT NT NT NT EST_HUMAN	finger protein 92, mmxq28orf Human protein C gene, camplete cds HOMEOBOX PROTEIN HOX-84 (HOX-2.6) Home septens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95897 Testis I Homo saptens cDNA 5′ end
11228. 10284 10284 19137 19137 19844 131296 100006	SWISSPROT STAUMAN EST HUMAN NT SWISSPROT NT NT NT EST HUMAN	Human protein C gene, complete cds HOMEOBOX PROTEIN HOX-84 (HOX-2.6) Home septens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95897 Festis I Home septens cDNA 6′ end
10284 438270 60875. 19137 19137 984806 301826 78944 -31296 1132400	SWISSPROT SET HUMAN NT SWISSPROT NT NT EST HUMAN	HOMEOBOX PROTEIN HOX-B4 (HOX-2.6) Homo sapiens ATP-binding cassetts, sub-family A (ABC1), member 8 (ABCA8), mRNA EST95937 Testis I Homo sapiens cDNA 6′ end
438270 60875.1 19137 19137 191884 301828 178844 132496	65700 NT EST HUMAN NT NT SWISSPROT NT NT EST HUMAN	Homo septens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA9), mRNA EST95937 Testis I Homo septens cONA 5' end
3.8E-02 AA382700.1 3.8E-02 M60875.1 3.8E-02 AF14395.2 3.7E-02 P19137 3.7E-02 L14561.1 3.7E-02 AB018231.1 3.7E-02 AB018231.1 3.7E-02 AB018231.1 3.7E-02 AB018231.1 3.7E-02 AB018231.1	EST HUMAN NT NT SWISSPROT NT NT EST HUMAN	EST95937 Testis I Hamo saplens cDNA 6' end
3.8E-02 M60875.1 3.8E-02 AF143952.2 3.7E-02 P19137 3.7E-02 L14561.1 3.7E-02 AB018291.1 3.7E-02 AB018291.1 3.7E-02 BF312963.1 3.7E-02 AF132405.1 3.7E-02 AF000063.1	NT NT SWISSPROT NT EST HUMAN	11.
3.8E-02 AF143952.2 3.7E-02 P19137 3.7E-02 L14561.1 3.7E-02 AB018231.1 3.7E-02 P79844 3.7E-02 BF312963.1 3.7E-02 AF132405.1 3.7E-02 AF000063.1	SWISSPROT NT EST HUMAN	Human von Willebrand factor gene, exons 23 through 34
3.7E-02 P19137 3.7E-02 L14561.1 3.7E-02 AB018281.1 3.7E-02 P79844 3.7E-02 BF312963.1 3.7E-02 AJ132405.1 3.7E-02 AP000063.1		Homo sapiens PELOTA (PELOTA) gene, complete cds
3.7E-02 L14561.1 3.7E-02 AI984806.1 3.7E-02 AB018231.1 3.7E-02 PF3844 3.7E-02 BF312963.1 3.7E-02 AJ32405.1 3.7E-02 AP000063.1		LAMININ ALPHA-1 CHAIN PRECURSOR (LAMININ A CHAIN)
3.7E-02 Al984809.1 3.7E-02 AB018281.1 3.7E-02 P79844 3.7E-02 BF312863.1 3.7E-02 AJ132405.1 3.7E-02 AP000063.1	T	Homo sepiens plasma membrane calcium ATPase isoform 1 (ATPZB1) gene, alternativa spilce products, partial cds
3.7E-02 AB018281.1 3.7E-02 P79844 3.7E-02 BF312963.1 3.7E-02 AJ132405.1 3.7E-02 AP000063.1		wr85e08.x1 NCI_CGAP_Kid11 Home sapiens cDNA clone IMAGE:2494502.3'
3.7E-02 P78944 3.7E-02 BF312963.1 3.7E-02 AJ132405.1 3.7E-02 AP000063.1	뉟	Homo sapiens mRNA for KIAA0718 protein, partial cds
3.7E-02 BF312963.1 3.7E-02 AJ132405.1 3.7E-02 AP000063.1	SWISSPROT	EOMESODERMIN
3.7E-02 AJ132405.1 3.7E-02 AP000063.1	EST HUMAN	801896233F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE:4125584 6
	F	Homo saplens GDF-9B gene
	Z	Aeropyrum pernix genomic DNA, section 8/7
3.7E-02 AE003975.1	Ę	Xylella fastidiosa, section 121 of 229 of the complete genome
3.7E-02 AA782516.1	EST HUMAN	al55c09.s1 Soares_parathyrold_turnor_NbHPA Homo septens cDNA clone 1360912.3
3.7E-02 BF124974.1	EST HUMAN	801762117F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4024973 5
	Г	Homo sapiens solute carrier family 22 (organic cation transporter), member 1 (SLC22A1), mRNA
3.6E-02 X73221.1	N	H.vulgere Ss1 gene for sucrose synthase

Table 4
Single Exon Probes Expressed in Lung

f							
Probe SEQ ID S NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3881	16201	28607	0.95	3.6E-02	AL096806.1	TN	Homo saplens genomic region containing hypervariable minisatellites chromosome 10[10q26.3] of Homo seplens
5683	18268	30670	0.71	3.6E-02	X59403.1	NT	C glutamicum gap, pgk and tpi genes for glyceraldehyde-3-phosphate, phosphoglycerate kinase and triosephosphate isomerase
5683	18268	30688	0.71	3.6E-02	X59403.1	ΤN	C.glutamicum gap, pgk and tpi genes for giyceraldehyde-3-phosphate, phosphoglycerate kinase and triosephosphate isomerase
5762	18343	30800	0.74	3.6E-02	AF181722.1	Į.	Homo sapiens RU2AS (RU2) mRNA, complete cds
6/0/	19913	32408	4.82	3.6E-02	AW945516.1	EST_HUMAN	CM2-EN0013-110500-192-b10 EN0013 Homo sapiens cDNA
8202	19613	32407	4.82	3.6E-02	AW945516.1	EST_HUMAN	CM2-EN0013-110500-192-b10 EN0013 Homo sapiens cDNA
7373	18043	30427	0.59	3.6E-02	U67575.1	IN	Methanococcus jannaschii section 117 of 150 of the complete genome
7522	19973	32807	1.92	3.6E-02	AF025952.1	ΙN	Chromatium vinosum sulfur globule protein Cv2 precursor (sgp2) gene, complete cds
7769	20212	33075	2.71	3.6E-02		EST_HUMAN	rw20e05.s1 NCI_CGAP_GCB0 Home septens cDNA done IMAGE:1241024 3' similar to gb:J00314_ma2 TUBULIN BETA-1 CHAIN (HUMAN);
8164	20586	33465	0.76	3.6E-02	BE143078.1	EST_HUMAN	MR0-HT0158-030200-003-b08 HT0158 Homo sapiens cDNA
9613	22028	34956	2.18	3.6E-02	U20608.1	۲	Dictyostalium discoldeum unknown spore germination-specific protein-like protein, orf1, orf2 and orf3 genes, complete cds
9613	22028	34857	2.18	3.6E-02	U20608.1	NT	Dictyostallum discoldeum unknown spore germination-specific protein-like protein, orf1, orf2 and orf3 genes, complete ods
918	13472	25920	1.14	3.6E-02	U09506.1	TN	Drosophila melanogaster tiggrin mRNA, complete cds
1035	13584	26025	1.23	3.6E-02	AF253417.1	₽N	Homo sapiens microsomal epoxide hydrolase (EPHX1) gene. complete cds
1584	14116	28582	1.12	3.5E-02	BF678085.1	EST HUMAN	602085136F1 NIH MGC 83 Homo saplens cDNA clane IMAGE:4248377 5
1584	14116		1.12	3.5E-02	BF678085.1	EST_HUMAN	802085138F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249377 5'
4228	16763	29142	1.67	3.6E-02	AE001773.1	NT	Thermotoga maritima section 85 of 136 of the complete genome
338	16860	29245	1.51	3.5E-02	P53780	SWISSPROT	CYSTATHIONINE BETA-I YASE PRECIRSOR (CRI) (RETA-CYSTATHIONASE) (ASSEN
6539	19091	31832	1.27	3.5E-02		N-	Maize actin 1 gene (WAc1), complete cds
8616	21051		0.91	3.6E-02	H29951.1	EST HUMAN	yp44e05.1 Soares retina N2b5HR Homo saptens cDNA clone IMAGE;190256 5' similar to contains Alu repetitive element:
9085	21517	34427	2.84	3.5E-02		EST HUMAN	601644701R2 NIH MGC 86 Hamo seplens cDNA clane IMAGE:3929737 3'
10047	22449	35397	1.32	3.5E-02	X76642.1	LN	L. lactis MG1363 grpE and dnaK genes
11251	23617	36663	2.29		AW861641.1	EST HUMAN	PM1-CT0326-291289-002-h03 CT0328 Homo sapiens cDNA
11251	23617	36664	2.29			EST_HUMAN	PM1-CT0328-291289-002-h03 CT0326 Homo saplens cDNA
12364	24777		3.98	3.5E-02		EST_HUMAN	601178765F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3543833 5
292	13165	25568	1	3.4E-02	AK024424.1	NT	Homo saplens mRNA for FLJ00013 protein, partial cds

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hil Acession No.	Top Hit Database	Top Hit Descriptor
595		25569	1	3.4E-02	AK024424.1	NT	Homo saplens mRNA for FLJ00013 protein, partial cds
969			2.42	3.4E-02	AK024424.1	TN	Homo sapiens mRNA for FLJ00013 protein, partial cds
596	13165	25569	2.42	3.4E-02	AK024424.1	NT	Homo sapiens mRNA for FLJ00013 protein, partial cds
1077	13623	26062	2.56	3.4E-02	AW274020.1	EST HUMAN	xx28d07.x1 Soares, NFL, T_GBC_S1 Homo sapiens cDNA clone INAGE:2814253 3' similar to SW:C211_HUMAN P53801 PUTATIVE SURFACE GLYCOPROTEIN C210RF1 PRECURSOR:
1237	13775		5.29	3.4E-02	5459	N.	Homo sapiens hypothetical protein FLJ13220 (FLJ13220), mRNA
2289	14796	27314	1.31	3.4E-02	T57160.1	EST HUMAN	vc20e08.r1 Stratagene lung (#937210) Homo saplens cDNA clone IMAGE:81250 5' similar to contains MER29 repetitive element
3408	15953	28366	1.34	3.4E-02	AL163208.2	N L	Homo saplens chromosome 21 segment HS21C008
3776			0.79		Γ	EST HUMAN	RC3-FN0155-060700-011-d10 FN0155 Homo seplens cDNA
3933	16468	28877	3.83	3.4E-02	AW794962.1	Г	RC6-UM0015-210200-021-A10 UM0015 Hamo sapiens cDNA
4638	17154	29534	2.62	3.4E-02	X69799.1	Г	M.musculus S-anilgen gene promoter region
5179			2.56	3.4E-02		SWISSPROT	LA PROTEIN HOMOLOG (LA RIBONUCIEOPROTEIN) (LA AUTOANTIGEN HOMOLOG)
5207	17710	30074	1.76		5.0	NT.	Ceenorhabditis elecans mRNA for DVS-1 protein, partial
6520			0.67	3.4E-02	BF131628.1	EST_HUMAN	601820445F1 NIH_MGC_58 Homo saplens cDNA clone IMAGE:4052434 5
7252		30409	5.13	3.4E-02	U24393.1	NT.	Human lysyl oxidase-like protein gene, exon 3
8822	21256		3.3	3.4E-02	A1869629.1	EST_HUMAN	wl89d04.x1 NCI_CGAP_Brn25 Homo sepiens cDNA clone IMAGE:2433031 3'
8173	21605	34515	1.21	3.4E-02	AA664886.1	EST_HUMAN	nu70f08.s1 NCI_CGAP_Aiv1 Homo sapiens cDNA done IMAGE:1216071 similar to contains Alu repetitive element.contains element MER25 MER25 repetitive element.
							zq04f11.s1 Strategene muscle 837209 Homo sapiens cDNA clone IMAGE:628749 3' similar to TR:G1017426 G1017425
9291	21723		5.55	3.4E-02	AA194306.1	EST HUMAN	IPISGKPLPKVTLSRDGVPLKATMRFNTEITAENLTINLKESVTADAGRYEITAANSSGTTKAFINIVVLDRPG PPT GPVVISDITFESVTLKWEPPKVDGGSOVTAVI I KRETSTAAMTEVSATVARTAAMAAAA
387	12974		4.05		Γ	Т	275e08.s1 Soares testis NHT Homo sepiens cDNA clone IMAGE:7281983
1197	13738	26181	17.65	3.3E-02	AB035867.1	M	Cricetulus griseus CYP2A17 mRNA for cytochrome P450 2A17, complete cds
1647	14178	26647	0.88	3.3E-02		NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
1731	14258		0.91	3.3E-02		NT	Aquifex aeolicus section 32 of 109 of the complete genome
2009			1.19			EST HUMAN	yf25c09.r1 Scares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:127888 5'
3337			0.91	3.3E-02	H02389.1	HUMAN	N35h02.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:150771 51
4194			3.66	3.3E-02	AF110763.1	Ī	Homo saplens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
4601			2.03	3.3E-02	6755862 NT	Į.	Mus musculus tumor rejection antigen gp96 (Tra1), mRNA
6769			19.22	3.3E-02	BF245995.1	EST_HUMAN	601853910F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073787 5'
6769		32079	19.22	3.3E-02	Γ	EST_HUMAN	601853910F1 NIH_MGC_57 Hamo saplens cDNA clane IMAGE:4073787 5
6962	19499		0.42	3.3E-02	L31625.1	NT	Canis familians intercellular adhesion molecule-1 (ICAM-1) mRNA, complete ods
					i		

Table 4 Single Exon Probes Expressed In Lung

							8: III Soon of a social income of the social i
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Dakabase Source	Top Hit Descriptor
8014	20446	33317	0.55	3.3E-02	AF124162.1	IN	Nicotiana plumbaginifolia molybdopterin synthase suiphurylase (cnx5) gene, partial ods
8267	Ц		0.94	3.3E-02	_	EST_HUMAN	7m92d04.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3562423 9'
9567	21890	34918	0.91	3.3E-02	ı	EST_HUMAN	7m92d04x1 NCI_CGAP_Brn23 Homo saplens cDNA clone IMAGE:3562423 3'
10901	23333	36336	3.65	3.3E-02		EST HUMAN	602247171F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332497 6
11856	24103		1.99	3.3E-02		EST HUMAN	ye49f11.r1 Soares fetal liver spleen 1NFLS Hamo saplens cDNA clone IMAGE:121101 5'
11982			1.85	3.3E-02	AF289665.1	۲N	Mus musculus EIF4H gene, partial cds; LIMK1 gene, complete cds; and ELN gene, partial cds
12013			3.11	3.3E-02		NT	Human interleukin 11 (IL11) gene, complete mRNA
136	12742	25162	1.51	3.2E-02	AJ002005.1	TN	Oryctolagus cuniculus gene encoding lieal sodium-dependent bile acid transporter
1153	13696	26136	11.08	3.2E-02	AF096275.1	LN	Drosophila melanogaster heat shock protein 68 (hsp68) gene, hsp68d allele, complete cds
1153	Ш		11.08		AF096275.1	Ę	Drosophila melanogaster heat shock protein 68 (hsp68) gene, hsp68d allele, complete cds
3095			13.9	3.2E-02	BE867353.1	EST HUMAN	601442431F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846727 5'
3711	16251	28658	0.62	3.2E-02	AL163203.2	FZ.	Homo sapiens chromosome 21 segment HS21C003
3974		28915	0.64	3.2E-02	Z74103.1	NT	S.cerevisiae chromosome IV reading frame ORF YDL055c
3974	. 16509		0.64	3.2E-02	Z74103.1	ĮN.	S.cerevistae chromosome IV reading frame ORF YDL055o
4233	16758		20.12	3.2E-02	X94768.1	TN.	H. sapiens RP3 gane (XLRP gene 3)
4819	17331	29710	3.89	3.2E-02	AF114182.1	TN	Saxfraga ridifica maturase (mat/) gene, chloroplast gene encoding chloroblast protein, pertiel cds
					_		Mus musculus MHC class III region RD gene, partial cds: Bf. C2, G9A, NG22, G9, HSP70, HSP70, HSC70t
5030	_		4.37	3.2E-02	AF109908.1	뉟	and smRNP genes, complete cds; G7A gene, partial cds; and unknown genes
6797		31038	2.61	3.2E-02	X68709.1	Ę	S.griseocarneum whiQ-Stv gene
5797	18378	31037	2.61	3.2E-02	X68709.1	NT	S.gniseocarneum whiG-Stv gene
6874	19414	32189	1.63	3.2E-02	M32437.1	LN TN	Rathpolyomavirus left junction in cell line W98.14
							yd33h12.s1 Soares fetal liver splean 1NFLS Homo saplens cDNA clone IMAGE:110087.3' similar to contains
1700	-		20.10	1	188307.1	ESI HUMAN	Alu repenuve etement contains LIK1 repenuve etement :
9989	ı		4.09	3.2E-02	AF173845.1	L	Seguinus oddipus tissue kalilikrein gene, complete cds
8318	20733	33627	0.9	3.2E-02	11424049 NT	NT	Homo sapiens cytochrome P460, subfamily IIB (phenobarbitel-inducible) (CYP2B), mRNA
8400	20041	33807	- a	מי	2000	Cot Unitable	ni07d11.s1 NCI_CGAP_P111 Homo sapiens cDNA clone IMAGE:1029621 similar to gb:X85923 UBIQUITIN-
3	1		3,5	3.25-02		NIVINOL I SE	THE TYCLER FOR (TOWNS),
080	_1		4.12	3.ZE-02		IN IN	Mus musculus Kinesin family member 3c (Kif3c), mRNA
9495		-	1.1	3.2E-02		EST_HUMAN	qm17b04.x1 NCI_CGAP_Lu5 Hamo sapiens cDNA clone IMAGE:1882063 3'
9495	21928	34850	1.1	3.2E-02	AI278971.1	EST_HUMAN	qm17b04,x1 NCI_CGAP_Lu5 Hamo sapiens cDNA clone IMAGE:1882063 3'
10081	22482		4.86	3.2E-02	AA719795.1	EST HUMAN	2354b12.e1 Soares_pineal_gland_N3HPG Homo septens cDNA clone IMAGE:397151 3' similar to gb:L08441 CYTOCHROME C OXIDASE POLYPEPTIDE III (HUMAN);
10277	ш	35640	1.17	3.2E-02	U96762.1	N N	Macaca mulatta chemokine receptor CCR5 mRNA, complete cds

-		_	_	7-	_	~	_	-	-	-	_	_	_			_	_	•	•		$\overline{}$						-	_	_		
	Top Hit Descriptor	qo72d02.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1914051 3' eimilar to SW:ILBP_HUMAN P61161 GASTROTROPIN	Homo sapiens dual specificity phosphatase 4 (DUSP4) mRNA	NEURONAL ACETYLCHOLINE RECEPTOR PROTEIN, ALPHA-3 CHAIN PRECURSOR (GF-ALPHA-3)	Mus musculus adaptor-related protein complex AP-3, delta subunit (Ap3d), mRNA	Drosophila melanogaster mRNA for headcase protein	IL2-BT0733-130400-067-A06 BT0733 Homo sapiens cDNA	Human leukemta Inhibitory factor receptor (LIFR) gene, promoter and partial expn 1	zs81a06.r1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:703858 5	602066783F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:4065789 5'	Neisseria meningilidis DNA for region 2 (fhaB- and fhaC-homologs, unknown genes) and flanking genes,	Suran i Amiro Enterococcus faecalis surface protein precursor, dene, complete cds		Phyakteines minutus cytochrome oxidase I gene, pertial cds; mitochondrial gene for mitochondrial product	z/65h03.r1 Soares_testls_NHT Homo sapiens cDNA clone IMAGE:727253 5	Saccharomyces cerevislae stem-loop mutation supressor SSL2 gane, complete cds	Pseudomonas fluorescens family II aminotransferase gene, complete cds	QV2-ST0296-150200-040-e09 ST0298 Homo saplens cDNA	EST74530 Pineal gland II Homo sapiens cDNA 6' end	Homo saplens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced	Homo saplens neuropilin 2 (NRP2) gene, complete cds, alternativaly spliced	601649872R1 NIH_MGC_74 Homo sapiens cDNA done IMAGE:3933928 3'	Homo saplens mRNA for KIAA1573 protein, partial cds	za39a10.r1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:294906 5' similar to contains	element TAR1 repetitive element;	za39a10.r1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:294908 5' similar to contains	aenem i Akti repuuva elemeni.	Cyprinus carpio mKNA for inducible nitro adde synthase (INOS gene)	601512208F1 NIH_MGC_71 Homo sapiens cDNA clane IMAGE:3913848 5	601512206F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3913848 5'	Homo saplens nuclear factor of kappa light polypaptide gene enhancer in B-cells 1 (NFKB1) gene, complete ods
	Top Hit Database Source	EST_HUMAN	TN	SWISSPROT	NT	LΝ	EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	F	IN		NT	EST_HUMAN	IN	NT	EST_HUMAN	EST_HUMAN	IN	TN	EST_HUMAN	INT		EST_HUMAN		ESI HUMAN	Į.	EST_HUMAN	EST_HUMAN	TN
	Top Hit Acession No.	AB10410.1	4503416 NT	P18845	6671564 NT	Z50097.1	BE091869.1	U78104.1	AA278478.1	BF687742.1	A 1204294 4	AF034779.1		AF187125.1	AA402242.1	M94176.1	AF247644.1	AW820223.1	AA364003.1	AF281074.1	AF281074.1		AB046793.1		N99615.1	Noose 4	L'CLORAN	AJ242806.1		BE889948.1	AF213884.1
	Most Similar (Top) Hit BLAST E Value	3.2E-02	3.1E-02	3.1E-02	3.1E-02	3.1E-02	3.1E-02	3.1E-02	3.1E-02	3.1E-02	3 15 00	3.1E-02		3.0E-02	3.0E-02	3.0E-02	3.0E-02	3.0E-02	3.0E-02	3.0E-02	3.0E-02	3.0E-02	3.0E-02		3.0E-02	100	3.05-02	3.05-02	3.0E-02	3.0E-02	3.0E-02
	Expression Signal	4.62	1.86	1.96	1.02	1.06	1.98	1.47	2.58	0.79	0.45	3.04		1.77	1.13	1.1	3.06	0.79	1.02	8.82	8.82	5.5	3.7		0.65	10 C	0.00	3.07	2.85	2.85	2.23
	ORF SEQ ID NO:	36791						30348		31177	34254	ĺ			27518		28600					30158			31870	04074				32629	32508
	Exon SEQ ID NO:	23733	13828	13873		14438		l	H	18494	24597		<u> </u>	14166	15007	16096	16193						18234		19127	40407	1			19726	19708
	Probe SEQ ID NO:	11371	1293	1337	1856	1919	5162	5514	5616	5916	2080	10059		43	2506	3554	3653	3744	3860	5164	5164	5292	5647		6576	2676	200	2	7314	7314	7504

Probe SEQ ID NO:	_						
	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7604	19708	32509	2.23	3.0E-02 AI	AF213884.1	TN	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete eds
7680	20125	32978	1.2	3.0E-02	3.0E-02 M86524.1	Į.	Human dystrophin gene
8101			0.59	3.0E-02	3.0E-02 BF246361.1	EST_HUMAN	601854981F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4074548 5'
9209				3.0E-02	AF275654.1	NT	Ornithorhynchus anatinus coagulation factor X mRNA, complete cds
10349				3.0E-02	AE001797.1	NT	Thermotoga maritima section 109 of 136 of the complete genome
11000			1.73	3.0E-02	3.0E-02 M81357.1	NT	Human coagulation factor VII (F7) gene exon 1 and factor X (F10) gene, exon 1
11420	23781		5.3	3.0E-02	AA483216.1	EST_HUMAN	ne87f04.s1 NCI_CGAP_Kid1 Homo saplens cDNA clone IMAGE:911283
11962	24946	30466	2.73	3.0E-02	3.0E-02 R32019.1	EST_HUMAN	yh63d04.s1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:134407 3'
12355	5 24414		12.7	3.0E-02	3.0E-02 AW895565.1	EST_HUMAN	QV4-NN0038-270400-187-h05 NN0038 Homo sepiens cDNA
12398	3 24940		3.43	3.0E-02	3.0E-02 AF048687.1	Į.	Raftus norvegicus UDP-Gal:glucosylcaramide bata-1,4-galacitosyftransferase mRNA, complete cds
2334	15334	27356	4.7	2 GF_0.7	AF228703 4	Ę	Homo sapiens milcohondrial glutathions reductase and cytosolic glutathione reductase (GRD1) gene,
3548	Ĺ			2.9E-02	2.9E-02 X55294.1	Į.	Sheep gene for ultra high-sulphur karatin protein
3941	16476			2.9E-02	H72805.1	EST HUMAN	WO7e10.r1 Soares fetal liver soleen 1NFI S Home septans cDNA clone IMACE 223430 K
6369	18927		1,41	2.9E-02	AF060221.1	Z L	Sus scrofa deaxyribonuclease II mRNA, complete cds
6617	19167	31920	7.16	2.9E-02	2.9E-02 BF032233.1	EST_HUMAN	601452881F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856598 5'
7365	19822	32636	0.49	2.9E-02	AJ391284.1	Į.	Neisseria meningitidis DNA for region 2 (fhaB- and fhaC-homologs, unknown genes) and flanking genes, strain FAM18
7698	3 20143		10.68	2.9E-02	l	EST HUMAN	801140729F1 NIH MGC 9 Hamo sapiens cDNA clone IMAGE:3049830 5
7908			0.71	2.9E-02	2.8E-02 D29214.1	EST_HUMAN	HUMNK262 Human epidermal karatinocyte Homo sapiens cDNA clone 282
8506	3 20920	33816	0.48	2.9E-02		NT	Xylella fastidiosa, section 78 of 229 of the complete genome
8633	21088	33977	0.84	2.9E-02 A	AF129279.1	F	Buchnera aphidicola natural-host Schlechtendalia chinensis gluconate-6-phosphate dehydrogenase (gnd) gene, partial cds
8633	21068	33978	0.84	2.9E-02 AI	AF129279.1	¥	Buchnera aphidicola natural-host Schlechtendalia chinensis gluconate-8-phosphate dehydrogenase (gnd) gene, partial cds
9803	3 22206	35143	1.93	2.9E-02	2.9E-02 AW875979.1	EST HUMAN	CM3-PT0014-071299-051-c04 PT0014 Homo saplens cDNA
9803	1		1.93	2.9E-02	2.9E-02 AW875979.1	EST_HUMAN	CM3-PT0014-071298-051-c04 PT0014 Homo saplens cDNA
10270	ı		1.13	2.95-02	AP000054.1	NT.	Aeropyrum pernix genamic DNA, section 7/7
10830	ᆜ		1.64	2.9E-02	2.9E-02 X65294.1	IN	Sheep gene for ultra high-sulphur keratin protein
11538		36978		2.9E-02	R01455.1		ye75a03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123532 5'
11984			1.38	2.9E-02	2.9E-02 AU135817.1		AU135817 PLACE1 Homo saplens cDNA clone PLACE1002962 5'
582	13163		0.7	2.8E-02	AW970163.1	EST_HUMAN	EST382234 MAGE resequences, MAGK Homo sapiens cDNA

_ ω				Most Similar		Top Hill	
	SEQ ID ORF SEQ NO:	O: Expression O: Signal	_	(Top) Hit BLAST E Value	Top Hit Acession No.	Database Source	Top Hit Descriptor
	14879		2.34	2.8E-02	2.8E-02 AA782516.1	EST_HUMAN	ai55c09.s1 Soares_parathyrold_tumor_NbHPA Homo sapiens cDNA clone 1360912 3'
	16854		99.0	2.8E-02	8393751 NT		Rattus norvegicus microtubule-associated protein tau (Mapt), mRNA
	17694 30	30055	1.73	2.8E-02	6878677 NT		Mus musculus leptin (Lep), mRNA
5330	17829		6.11	2.8E-02	U52111.2	LN	Homo saptens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Cahmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
5748 1	18330 30	30784	13.48	2.8E-02	BE741083.1	T HUMAN	601594078F1 NIH MGC 9 Home sapiens cDNA clone IMAGE:3948067 5
		32739	1.1	2.8E-02	78960.1	Π	yd21b08.r1 Soares felal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:108855 5
		34219	2.23	2.8E-02	1,005820.1	Г	Craterostigma plantagineum mRNA for homeodomain leucine zipper protein (hb-1)
			0.98	2.8E-02	A280762.1	EST_HUMAN	zs96c06.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:711468 6'
		34835	1.01	2.8E-02	_	_	Cavia porcellus inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, complete cds
	24771		1.46	2.8E-02		EST_HUMAN	y12h02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:126675 5'
12289 2	24378		1.18	2.8E-02	2.8E-02 X06322.1		Yeast CN31C chromosome III RAHS DNA (right arm transcription hot-spot)
							Human germline T-cell receptor beta chain Dopamine-beta-hydroxylasse-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV8S1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3, TCRBVAS7P, TCRBVAS7P, TCRBVAS7A1T, TCRBVAS2A2PT
1517 1	14049 26	26513	1.06	2.7E-02	U66059.1	. TN	TCRBV13S9/13S>
1		28367	3.05	2.7E-02	AL161494.2	IN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 6
4218 1		29131	1.89	2.7E-02	447258.1	EST HUMAN	yy86h12.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:280487 6
ш		29132	1.89	2.7E-02	17258.1	EST_HUMAN	yy86h12.r1 Soares_multiple_solerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:280487 5
5497 1	18088 30	30330	0.63	2.7E-02 BF	-245672.1	EST_HUMAN	601864811F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4083075 5'
5698	18283 30	30707	1.24	2.7E-02	2.7E-02 R12245.1	EST_HUMAN	y33d09.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:128657 5' similar to SP:JC2264 JC2264 TISSUE FACTOR PATHWAY INHIBITOR - RHESUS;
. }	18759 31	31462	0.75	2.7E-02	G1670.1	LN LN	T.aestivum pTTH20 mRNA for wheat type V thlonin
			1.11	2.7E-02		L	A.bisparus pgKA gene
		32502	1.91	2.7E-02	AA993571.1	EST_HUMAN	ot96h03.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1624661 3'
	20868		0.63	2.7E-02	AK024456.1	Г	Homo sapiens mRNA for FLJ00048 protein, partial cds
8494 2	20906 33	33801	99.0	2.7E-02	9256542 NT		Mus musculus G21 protein (G21), mRNA
					,		tc28g08.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:2065982 3' similar to
			138	2.7E-02		L HUMAN	contains Alu repetitive element
ı		25562	1.36	2.6E-02		NT	Homo saplens chromosome 21 segment HS21C082
- 1			19.4	2.6E-02			IL3-CT0219-280100-062-C09 CT0219 Homo sepiens cDNA
2261 1	╛	27288	1.62	2.6E-02	2.6E-02 AA490021.1	EST_HUMAN	ab02b02.s1 Stratagene fetal retina 937202 Homo saplens cDNA clone IMAGE:839595 3'
- [14771 27	7290	1.87	2.6E-02	6754241 NT		Mus musculus histidine rich calcium binding protein (Hrc), mRNA

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	_ <u>0</u>	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2263	14771	27291	1.87	2.6E-02	6754241 NT	LN L	Mus musculus histidine rich calcium binding protein (Hrc), mRNA
. 2869	16424		1.12	2.6E-02	AF109906.1	Į.	Mus musculus MHC dass III region RD gene, partial cds; Bf, C2, 09A, NG22, 09, HSP70, HSP70, HSC70t, and smRNP genes, complete cds; G7A gene, partial cds; and unknown genes
3978	16513		1.2	2.6E-02	AW181945.1	EST_HUMAN	x68f09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:26624093'
4661	17177		2.56	2.6E-02	BE968922.1	EST_HUMAN	801649877R1 NIH_MGC_74 Homo sapiens CDNA clone IMAGE:3933786 3'
4973			4.18	2.6E-02	L12032.1	NT	Chicken dorsalin-1 mRNA, complete cds
5189	17693	30054	1.35	2.6E-02	AE002014.1	LN T	Delnococcus radiodurans R1 section 151 of 229 of the complete chromosome 1
6227	17729	26008	1.91	2.6E-02	AW241154.1	EST HUMAN	xe52b04.x1 NCI_CGAP_Ser4 Homo sepiens cDNA dane IMAGE 2570383 3' similar to SW: Y089_HUMAN Q16041 HYPOTHETICAL PROTEIN KIAA0069;
6131	18700		0.41	2.6E-02	AL161563.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 63
6180			0.65	2.6E-02	AL161563.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 63
6537	16089		7.25	2.6E-02	AI206030.1	EST_HUMAN	qg27f11,x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1762317 3'
6764			2	2.6E-02	BE621748.1	EST_HUMAN	601483473T1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895578 3'
7220		32648	96.0	2.6E-02	299064.1	N	Vaccinia virus ORF1L, strain Wyeth
7220			96.0	2.6E-02	299064.1	L	Vaccinia virus ORF11, strain Wyeth
7318			6.03	2.6E-02	6981271 NT	FZ	Rattus norvegicus Nerve growth factor receptor, fast (Ngfr), mRNA
7768	_		0.72	2.6E-02	P21894	SWISSPROT	ALANYL-TRNA SYNTHETASE (ALANINE-TRNA LIGASE) (ALARS)
808	_1			2.6E-02	AA860946.1	EST_HUMAN	ak22f04.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1406719 3'
829				2.6E-02	11432020	K	Homo sapiens KIAA1070 protein (KIAA1070), mRNA
10306		35671	5.81		AL163303.2	LN PL	Homo sapiens chromosome 21 segment HS21C103
11140			2.08	2.6E-02		EST_HUMAN	zs84c02.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:704162 5'
11314			1.62	2.6E-02	AW 600547.1	EST_HUMAN	UI-HF-BNO-ekj-e-10-0-UI.r1 NIH_MGC_50 Homo sepiens cDNA clone IMAGE:3077466 5'
11889	_		1.44	2.6E-02		EST_HUMAN	602016501F1 NCI_CGAP_Brn84 Homo sapiens cDNA clone IMAGE:4150944 5'
93 93	1		1.74	2.5E-02	Al783130.1	EST_HUMAN	on28f08,y5 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1557827 5'
92 92 93			1.74	2.6E-02		EST_HUMAN	m26f06,y5 NCI_CGAP_Lu5 Hamo sapiens cDNA clane IMAGE:1557827 5'
832			23.18	2.5E-02	BE974314.1	EST_HUMAN	601680305R2 NIH_MGC_83 Homo sepiens cDNA clane IMAGE;3950885 3'
892	l	25895		2.5E-02	BE974314.1	EST_HUMAN	601880305R2 NIH_MGC_83 Homo sepiens cDNA clone IMAGE:3950665 3'
2722			1.68	2.5E-02		ΙN	Rettus norvegicus rabphilin-3A mRNA, camplete cds
2910	_1		2.05	2.5E-02		NT	H.oarterae mRNA for fucoxanthin chlorophyll a/c binding protein, Fcp1
2910			2.05	2.5E-02	X99697.1	NT	H.carterae mRNA for fucoxanthin chlorophyll a/o binding protein, Fcp1
4067			1.12	2.5E-02	BE701165.1	EST_HUMAN	PM2-NN0128-080700-001-a12 NN0128 Hamo saptems cDNA
4057				2.5E-02		EST_HUMAN	PM2-NN0128-080700-001-a12 NN0128 Homo sapiens cDNA
4221	_1	29135		2.5E-02	.1	EST_HUMAN	M36h08.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2834015 3'
6240	17989		0.94	2.5E-02	AI754201.1	EST_HUMAN	cr21111.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr21111.3'

Table 4 Single Exon Probes Expressed in Lung

					-		Rina III popolitar popolitar
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5882	18561	31246	0.62	2.5E-02	AI732776.1	EST_HUMAN	zx83c10.x5 Soares ovary tumor NbHOT Homo saplens cDNA clone IMAGE:8103543'
				1			7630e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284008 3' similar to contains L1.t1 L1
2000			5.27	2.5E-02		EST_HUMAN	repetitive element;
6520	_}		3.68	2.5E-02	BE746888.1	EST_HUMAN	601579393F1 NIH_MGC_9 Home saplens cDNA clone IMAGE:3928054 5'
9999				2.5E-02	L29029.1	NT	Chlamydomonas reinhardtil VSP-3 mRNA, complete cds
8189			1.79	2.5E-02	BF526722.1	EST_HUMAN	602070562F1 NCI_CGAP_Bm64 Hamo sapiens cDNA clone IMAGE:4213406 5'
8199	20820	33507	1.79	2.5E-02	BF526722.1	EST_HUMAN	602070562F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4213406 5'
8451			89.0	· 2.5E-02	AF129458.1	FN	Chlamydomonas reinhardtii class II DNA photolyase (PHR2) gene, complete cds
10592		38020	1.76	2.5E-02	Q10335	SWISSPROT	HYPOTHETICAL 48.7 KD PROTEIN C19G10.05 IN CHROMOSOME I
10592	23037	36021		2.5E-02	Q10335	SWISSPROT	HYPOTHETICAL 48.7 KD PROTEIN C18G10.05 IN CHROMOSOME I
10646	23086	36071	2.24	2.5E-02	AJ237936.1	TN	Bos faurus partial stat5B gene, exons 17-19
							Mus musculus major histocompatibility locus class II region: major histocompatibility protein class II alpha
							chain (Malpha) and major histocompatibility protein class II beta chain (IEbeta) genes, complete cds:
- 1984 24			2.85	2.5E-02	AF050157.1	N	butyraphilin-like (NG9), butyraphilin-li>
11474			2.72	2.5E-02	AB007546.1	NT	Homo sapiens gene for LECT2, complete cds
11527	23885		5.1	2.5E-02	U51002.1	NT	Mus musculus Dix-2 gene, complete cds
11845	24862		1.82	2.5E-02	11420078 NT	Ė	Homo sapiens similar to ALEX3 protein (H. sapiens) (LOC63634), mRNA
12040			1.74	2.5E-02	11433220 NT	Į.	Homo sapiens milogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
12145	24276		1.59	2.6E-02	U60169.1	NT	Dictycstellum discoldeum putative protein kinase MkcA (mkcA) gene, complete cds
12171		30838	2.68		BE973327.1	EST HUMAN	601652365R2 NIH MGC 82 Homo sepiens cDNA done IMAGE:3935513 3'
178				2.4E-02	Al378582.1	EST_HUMAN	tb72c07.x1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:2070156 3'
1615			1.54	2.4E-02	H65884.1	EST_HUMAN	yr75f11.r1 Soares fetal liver spleen 1NFLS Homo septens cDNA clone IMAGE:211149 5'
1976	$_{L}$			2.4E-02	P01901	SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K(B))
1975			1.06	2.4E-02	P01901	SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K(B))
4390			1.11	2.4E-02	1	NT	T.thermophila calcium-binding 25 kDa (TCBP 25) protein mRNA, complete cds
4557	_		1	2.4E-02	P01901	SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K(B))
4557			1	2.4E-02	P01901	SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K(B))
6632			1.17	2.4E-02	W86680.1	EST_HUMAN	zh63h04.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:4167913'
6883	[· 2.4E-02	M31650.1	LN	Chicken myrtstoylated alanine-rich C kinase substrate (MARCKS) mRNA, complete cds
6693				2.4E-02	M31650.1	NT	Chicken myristoylated alanine-rich C kinase substrate (MARCKS) mRNA, complete cds
7669	1	١	1.09	2.4E-02	220573.1	EST_HUMAN	HSAAACKVX T, Human adult Rhabdomyosarcoma cell-line Homo sapiens cDNA
7686			Ŧ	2.4E-02	X12925.1	NT	Rat gene for uncoupling protein (UCP)
7686	20131			2.4E-02	1	NT	Rat gene for uncoupling protein (UCP)
8493	_	33799	0.68	2.4E-02	P98092	SWISSPROT	HEMOCYTIN PRECURSOR (HUMORAL LECTIN)

					*		S. Daniel Control of the Control of
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Velue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8493	20905	33800	0.68	2.4E-02	P98092	SWISSPROT	HEMOCYTIN PRECURSOR (HUMORAL LECTIN)
8020	21453	34363	6.77	2.4E-02	N69442.1	EST_HUMAN	za35g11.s1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:294596 3' similar to gb K02909 RATSR7K Rat (rRNA);contains A3R.b1 A3R repetitive element;
3			•	1			zu81 c08.s1 Soares_testis_NHT Homo saplens cDNA done IMAGE:745354 3' similar to gb;J04422 ISLET AMYLOID POLYPEPTIDE PRECURSOR (HUMAN);contains Alu repetitive element;contains element XTR
986	22298	35240	2.2	2.4E-02	AV692954.1	EST HUMAN	AV692954 GKC Homo saplens cDNA clone GKCDSC03 6'
10019	22421		3.3			EST_HUMAN	nh07b12.s1 NCI_CGAP_Thy1 Homo sapiens cDNA done IMAGE:943583 sImilar to contains Alu repetitive element.
11323	23687	36737	2.21	2.4E-02		NT	Mus musculus major histocompatibility locus class III regions Heo70t gene, partial cds; smRNP, G7A, NG23, MuS homolog, CLCP, NG24, NG25, and NG26 genes, complete cds; and unknown genes
11323	23687	36738	2.24	2.4E-02	AF109905.1	<u> </u>	Mus musculus major histocompatibility locus class III regions Hsc70t gene, partial cds; smRNP, G7A, NG23, MutS homolog, CLCP, NG24, NG26, and NG26 genes, complete cds; snd unknown genes
11630			1.88		9627909	۲	Bacterlophage bIL67, complete genome
11789	24058	31025				IN	Mus musculus DinB hamalog 1 (E. coli) (Dinb1), mRNA
11847	24096				BE928869.1	EST_HUMAN	MR0-FT0175-310800-202-a06 FT0175 Hamo sapiens cDNA
11936	24148		1.51	2.4E-02	AF163864.1		Homo sapians SNCA isoform (SNCA) gene, complete cds, alternatively spliced
12089	24240		5.66	2.4E-02	AB008569.1	LN	Caenorhabditis elegans mRNA for Iran-sulfur subunit of mitochondrial succinate dehydrogenase, complete cds
12119			1.72	2.4E-02	ı	EST_HUMAN	yy08a08.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:270610 5'
12294	24687	30775	1.28			EST_HUMAN	zp13h01.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609361 6'
1842			3.66		W05340.1	EST_HUMAN	za84g08.r1 Soares_fetal_lung_NbHL19W Homo saplens cDNA clone IMAGE:299294 5'
1852	_		4.94		U94165.1	TN.	4 Homo saplens mammary tumor-associated protein INT6 (INT6) gene, exon 4
2246			1.93		Z74293.1	IN	S.cerevislae chromosome IV reading frame ORF YDL245c
3681		28629	8.23		Z20377.1	EST_HUMAN	HSAAACADH P, Human foetal Brain Whole tissue Homo saplens cDNA
3712			0.76	2.3E-02	123429.1	IN	Canis beta-galactosides-binding lectin (LGALS3) mRNA, 3'end
4168			0.82		1.24789.1	NT	Gallus gallus connexin 45.6 (Cx45.8) gene, complete cds
4168			0.82		L24799.1	TN	Gallus gallus connexin 45.6 (Cx45.6) gene, complete cds
4448	16968	28355	1.03	2.3E-02	AW899107.1	EST_HUMAN	CMA-NN0080-290400-160-b04 NN0080 Homo sapiens cDNA
4479			92'0		BE935225.1	EST_HUMAN	CM3-MT0118-010900-318-507 MT0118 Homo sapiens cDNA
4479		29382	92'0	2.3E-02	BE935225.1	EST_HUMAN	CM3-MT0118-010900-318-g07 MT0118 Hamo saplens cDNA
4480	17986	╛	0.98		AW593693.1	EST_HUMAN	xs25d08.x1 NCI_CCAP_Utz Homo sepiens cDNA clone IMAGE:2770671 3'

Table 4 Single Exon Probes Expressed In Lung

Probe SEQ ID	SEO ID	ORF SEQ	Expression	Most Similar (Top) Hit	Top Hit Acession	Top Hit Database	Top Hit Descriptor
Ö		ö 2 0	Signal	BLAST E Value	o Z	Source	
4480	17986	29384	96.0	2.3E-02	AW 693693.1	EST_HUMAN	xs25d08.x1 NCI_CGAP_Utz Homo saplens cDNA clone IMAGE:27706713'
4613	17129	29514		2.3E-02	BE143150.1	EST_HUMAN	MR0-HT0169-151099-001-e03 HT0159 Hamo seplens cDNA
4834	ļ			2.3E-02	BF026487.1	EST_HUMAN	601672279F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3955386 5
4634				2.3E-02	BF026487.1	EST_HUMAN	801872278F1 NIH_MGC_20 Hamo seplens cDNA clone IMAGE;3955386 5
5122	17829		9.31	2.3E-02	7662173 NT	NT	Homo sapiens KIAA0547 gene product (KIAA0547), mRNA
							Caulobacter crescentus topolsomerase IV ParE subunit (parE) gene, complete eds, and proplonyt-CoA
5631				2.3E-02	U86303.1	LN	carboxylase beta chain (pccb) homolog gene, parva cds
6556				2.3E-02	BF106464.1	EST HUMAN	601822921R1 NIH_MGC_77 Homo saplens cDNA clone IMAGE:4042829 3
6269	19518			2.3E-02	AL161505.2	NT	Arabidopsis thallana DNA chromosome 4, contig fragment No. 17
7397		30356	0.72	2.3E-02		EST_HUMAN	MR0-HT0080-011099-002-c09 HT0080 Homo sepiens cDNA
7948	20385	33251	0.5	2.3E-02	AL163303.2	IN	Homo sapiens chromosome 21 segment HS21C103
8646	l	33879	3.35	2.3E-02	U63610.1	IN	Human plectin (PLEC1) gene, exons 3-32, and complete cds
8880	21413	34327	1.08		AJ298105.1	٦	Homo saplens PDX1 gene for lipoyl-containing component X, exons 1-11
888		34328	1.08	2.3E-02	AJ298105.1	IN	Homo saplens PDX1 gene for lipoyl-containing component X, exons 1-11
9430	21862	34778	0.92			SWISSPROT	HYPOTHETICAL 55.6 KD PROTEIN B0280.5 IN CHROMOSOME III PRECURSOR
9937		35288	6.0		P50532	SWISSPROT	CHROMOSOME ASSEMBLY PROTEIN XCAP-C
10058		35410	1.44	2.3E-02	AE000199.1	NT	Escherichia coll K-12 MG1655 section 89 of 400 of the complete genome
10058		35411	1.44	L	AE000199.1	NT	Eschertchia coli K-12 MG1655 section 89 of 400 of the complete genome
							GLUCOAMYLASE S1/S2 PRECURSOR (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN
10565		35999				SWISSPROT	GLUCOHYDROLASE)
11761	24702		5.69	2.3E-02		EST_HUMAN	601178958F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3546567 5'
12209					BF528462.1	EST_HUMAN	602043629F1 NCI_CGAP_Bm67 Hamo saplens cDNA clone IMAGE:4181454 5'
12209						EST_HUMAN	602043629F1 NCI_CGAP_Brn67 Homo saplens cDNA clone IMAGE:4181454 6'
12326	3 24395	30887	2.02	2.3E-02	U39394.1	LN	Streptomyces sp. alpha-1,3/4-fucosidase precursor gene, complete cds
12385	5 24973		2.15	2.3E-02	U11077.1	IN	Dictyosteilum discoideum extracellutar signal-regulated protein kinase (ERK1) mRNA, complete cds
12606	1.		1.71			M	Homo saplans dead ringer (Drosophila)-like 1 (DRIL1), mRNA
							Columba livia nucleoside diphosphate kinase (NDPK) gene, nuclear gene encoding mitochondrial protein,
758		3 25747	4.07		AF018267.1	TN	complete cds
1739			1.44		4557448 NT	TN	Homo sapiens chromodomain helicase DNA binding protein 2 (CHD2) mRNA
1953						TN	S.pneumoniae popA gene and open reading frames
2680		5 27682	1.29		AF109633.1	TN	Mus musculus ets variant protein ER81 gene, exons 1 through 4
3412	1		2.05	2.2E-02	AA577785.1	EST_HUMAN	hn24e04.s1 NCI_CGAP_Gas1 Homo sapiens cDNA clone IMAGE:10847823'
3646	16186		3.83		AF083094.1	TN	Infecticus bursal disease virus segment B strain IL4 VP1 gene, complete ods

Table 4
Single Exon Probes Expressed in Lung

Top Hit Descriptor	PM0-BT0340-170100-004-b03 BT0340 Hamo sapiens cDNA	S.cerevisiae chromosome IV reading frame ORF YDL 245c	602087538F1 NIH MGC_58 Homo sapiens cDNA clone IMAGE:4086889 5'	AV699721 GKB Hamo sapiens cDNA clane GKBAND03 3'	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 27	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 27	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	complete cds)	Mus musculus Sjogren syndrome antigen A1 (Ssa1), mRNA	601684309F1 NIH_MGC_7 Home septens cDNA clone IMAGE:3938571 6	Homo sapiens transmembrane protein 1 (TMEM1), mRNA	ne47h07.s1 NCI_CGAP_Co3 Homo sepiens cDNA clone IMAGE:900541 3' similar to contains Alu repetitive	element	AV761602 MDS Homo seplens aDNA clane MDSADG01 5'	Dictyostelium discoldeum histidine kinase C (dhkC) mRNA, complete cas	Bacillus subtilis cot/LM cluster, Cot/K (cot/K), Coti. (coti.), and spore coat protein CotM (cotiM) genes,	oomplete cds	Mus musculus macrophage migration inhibitory factor (MIF) gene, 6' flanking region and partial ods	Mus musculus macrophage migration inhibitory factor (MIF) gene, 5' flanking region and partial cds	уж/3h07.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE-284541 5'	2x33b09.r1 Soares_total_fetus_NbZHF8_9w Homo sapiens cDNA done IMAGE:796121 5	S.cerevisiae chromosome IV reading frame ORF YDL245c	602015306F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4151161 5'	Borrelia burgdorferi plasmid ср32-2, erpC and erpD genes, complete cds; and unknown genes	A.thalkana mitochondrial genome, part A	ag55g12.s1 Gessler Wilms fumor Homo sapiens cDNA clone IMAGE:1128918 3'	wh54a05.x1 NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE:2384528 3'	CM4-HT0244-111199-040-h05 HT0244 Homo sapiens cDNA	QV3-GN0058-120900-329-412 GN0058 Homo sapiens cDNA	Mus musculus sarting nextn 1 (Snxt), mRNA	Homo saplens partial 5-HT4 receptor gene, exons 2 to 5	Homo saplens partial 5-HT4 receptor gene, exons 2 to 5
Top Hit Database Source	EST_HUMAN	N	EST HUMAN	EST_HUMAN	N	NT	. LN		뉟	N	EST_HUMAN	N.		EST_HUMAN	EST_HUMAN	Z-L		NT	L	NT	EST_HUMAN		TN	EST_HUMAN	TN.	NT	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	NT	TN	L
Top Hit Acesslon No.	2.2E-02 AW601317.1	274293.1	2.2E-02 BF540825.1	2.2E-02 AV699721.1	2.2E-02 AL161515.2		2.2E-02 AB026898.1		B026898.1	6878140 NT	3E797601.1	11423632 NT		2.2E-02 AA503553.1	2.1E-02 AV761502.1	AF029726.1		J72073.1	4F204395.1	4F204395.1	V29266.1	A461271.1		3F343655.1	J44914.1	Y08501.1	4A665737.1	41823432.1	4W379529.1	3F086199.1	9790238 NT	4J243213.1	4J243213.1
Most Similar (Top) Hit BLAST E Value	2.2E-02	2.2E-02 Z74293.1	2.2E-02	2.2E-02	2.2E-02 /	2.2E-02	2.2E-02		2.2E-02	2.2E-02	2.2E-02 B	2.2E-02		2.2E-02	2.1E-02	2.1E-02 A		2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02	2.1E-02
Expression Signal	96.0	1.01	11.2	3.22	2.11	2.11	2.74		2.74	1.33	2.71	2.68		3.06	6:39	10.04		7.72	3.36	3.36	3.86	1.12	0.81	0.72	1.77	5.69	0.82	0.63	0.72	0.68	0.87	2.52	2.52
ORF SEQ ID NO:	28798		30289		34259	34260	35163		35164		36422	36967		·													29678	29760	31168	32501		ŀ	35124
Exan SEQ ID NO:	16395	16467	17940	20141	21343	21343	72227									13040			- 1	13952			- 1	١			17294	17388	18486	19702	- 1	22187	
Probe SEQ ID NO:	3859	3832	5445	7696	8903	8909	9824		9824	10180	10981	11526		12045	436	466		1298	1419	1419	2774	3575	4148	4329	4475	4760	4780	4876	5908	7498	8012	9784	9784

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10021	22423	35373	1.38		1.28324.1	TN	Streptococcus pneumoniae Integrase, excisionase, repressor protein, relaxese, UmuC MucB homolog, and UmuD MucA homolog genes, complete cds; and unknown genes
11253	23619	99998	1.72	2.1E-02	6764265 NT	NT	Mus musculus heat shock protein, 74 kDa, A (Hspaßa), mRNA
11472	23830	36898	1.86	2.1E-02	AW844320.1	EST_HUMAN	RC4-CN0050-130200-012-h04_1 CN0050 Homo sepiens cDNA
12024	18008		8.15	2.1E-02	Y19213.1	TN	Homo saplens putative psihHbA pseudogene for hair keratin, exons 2 to 7
12065	24699	82.70E	1.18	2.1E-02	L34170.1	NT	Human germline UBE1L gene similer to the gene for ublquitin-activating enzyme, exons 1-22
12495	24502	30853	4.85	2.1E-02	AF183913.1	LN	Azosptrillum brasilense major outer membrane protein OmaA precursor (omaA) gene, complete ods
18	12638	25025	1.22	2.0E-02	BF002832.1	EST_HUMAN	7g51c08.x1 NCI_CGAP_P28 Homo saptens cDNA clone IMAGE:3309998 3' similar to contains MER1.t3 MER1 repetitive element;
19	12639		10.27	2.0E-02	AW895565.1	EST_HUMAN	QV4-NN0038-270400-187-h05 NN0038 Homo sapiens cDNA
272	12870		3.51	2.0E-02	3835	NT	Mus musculus DinB hamalog 1 (E. call) (Dhb1), mRNA
309	12904	١,	2.9		AA456538.1	EST_HUMAN	aa15b10.r1 Soares_NhHMPu_S1 Homo septens cDNA clone IMAGE:813307 5
821	13379	25816	. 2.24	2.0E-02	1N 263635 NT	IN	Mus musculus DinB hamdog 1 (E. cail) (Dinb1), mRNA
1114	13658	26099	1.59	20-40 C	AI DORROR 1	TW	Homo seplens genomic region containing hypervariable minisatellites ohromosome 1[1p36.33] of Homo senions
1230	13769	L	1.2		8922391	LN L	Homo saplens hypothetical protein FLJ10379 (FLJ10379), mRNA
1230	13769		1.2		8922391 NT	LN	Homo saplens hypothetical protein FLJ10379 (FLJ10379), mRNA
1843	14365	26858	1.46	2.0E-02	8922453 NT	IN.	Homo sapiens hypothetical protein FLJ10486 (FLJ10486), mRNA
1843	14365	26859	1.46	2.0E-02	8922453 NT	IN.	Homo saplens hypothetical protein FLJ10486 (FLJ10488), mRNA
2757	15247		1.56	2.0E-02	AL161532.2	TN	Arabidopsis thallana DNA chromosome 4, contig fragment No. 32
3041	12638	25025	2.08	2.0E-02	BF002932.1	EST_HUMAN	7g61c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3309998 3' similar to contains MER1.t3 MER1 repetitive element;
3404	45847		707	00 20 0	TM 1273007	Į.	Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B
3186	15739		177	L	AF09558	12	(Genesos), illinum Arabidossis thalisma C2H2 zino finaer andeln FZF mRNA, complete cats
4020	16553	28950	1.56		M18095.1	L	P. vulgaris hydroxyaraline-rich alycopratein (HRGP) mRNA, 3' end
5250	17751		10.86		AF189368.1	N.	Ajeliomyces capsulatus catalase Isozyme A (CATA) mRNA, complete cds
5268	17769		0.64		AI271995.1	EST HUMAN	qi83e03.x1 NCI_CGAP_Kdd3 Homo sepiens cDNA clone IMAGE:1855076 3'
5310	17810	30175	0.64	2.0E-02	-	EST_HUMAN	ea15b10,r1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:813307 6'
5903	18481	31163	99'0	2.0E-02	U34778.1	F	Caenorhabditis elegans sma-2 mRNA, complete cds
6188	18754		0.68		L35321.2	NT	Dictyostellum discoldeum class VII unconventional myosin (myol) gene, complete cds
8065	20496		98'0		AP000004.1	TN	Pyrococcus horikoshli OT3 genomic DNA, 777001-994000 nt. position (4/7)
8065	20498	33375	0.86	2.0E-02	AP000004.1	NT	Pyrococcus harikashii OT3 genomic DNA, 777001-994000 nt. pasitian (4/7)
							-

					6		\$
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3950	22362		2.17	2.0E-02	U70408.1	NT	Japanese encephalitis virus envelope protein mRNA, partial cds
10280	22681	35643	1.82	2.0E-02	1	EST_HUMAN	wa17b02.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2298315 3'
. 10439	22891	35867	3.2	2.0E-02	Z73966.1	NT	Mycobacterium tuberculosis H37Ry complete genome; segment 83/162
11568	17810	30176	1.68	2.0E-02	AA456538.1	EST_HUMAN	Ra15b10.r1 Soares_NhHMPu_S1 Homo sepiens cDNA clone IMAGE:813307 5'
12062	15247		1.95	2.0E-02	AL161532.2	NT.	Arabidopsis theliana DNA chromosome 4, contig fragment No. 32
12578	24727		1.5	2.0E-02	BE786595.1	EST_HUMAN	601478819F1 NIH_MGC_68 Homo saplens cDNA clone IMAGE:3881477 5'
12683	24561		3.77	2.0E-02	T80037.1	EST_HUMAN	yd04c09.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:24875 5'
				•			nf18a07.s1 NCI_CGAP_Pr1 Hamo sapiens cDNA clone IMAGE:914196 similar to contains L1.t1 L1
713	_		2.4	1.9E-02		EST_HUMAN	repetitive element;
1871	_	26997	2.11	1.9E-02		NT	Homo saplens chromosome 21 segment HS21C103
1971	14489		2.11	1.9E-02	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
2414	14918	27435	1.56	1.9E-02	AL161550.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 50
2858	15413	27833	10.15	1.9E-02	AA713856.1	EST_HUMAN	rw04f05.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238337 3'
2906	15461	27885	1.8	. 1.9E-02	AV648669.1	EST_HUMAN	AV648669 GLC Hamo sapiens cDNA clone GLCBLH07 3'
3220	15772		0.71	1.9E-02	AB033611.1	NT	Urotrichus talpoides mitochondrial gene for cytochrome b, complete cds
3605	16145		1.5	1.9E-02	N52250.1	EST_HUMAN	yz28b02.s1 Soares_multiple_sclerosis_ZNbHMSP Homo septens cDNA clone IMAGE:284331 3'
3700	16240		7.58	1.9E-02	BE738088.1	EST_HUMAN	601572682F1 NIH_MGC_57 Homo saplens cDNA clone IMAGE:3839564 5'
4059	16590	28982	1.46	1.9E-02	AF141940.1	IN	Mycoplasma Initans VIhA1 precursor (vIhA1) and VIhA2 precursor (vIhA2) genes, partial cds
4209	16734	29124	1.83	1.9E-02	P09081	SWISSPROT	HOMEOTIC BICOID PROTEIN (PRD-4)
4209	16734	29125	1.83	1.9E-02	P09081	SWISSPROT	HOMEOTIC BICOID PROTEIN (PRD-4)
4577	17093	29481	72.77	1.9E-02	A1452899.1	EST_HUMAN	146404.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2144551 3' similar to contains Alu repetitive element.
4788	17302		08.0	4 05 02	AE470764.9	TIV	Homo saplans lithium-sensitive myo-Inositol monophosphatase A1 (IMPA1) gene, promoter region and partial
5114	L	27435		1.9E-02		L	Arabidopsis thallana DNA chromosome 4, contig fragment No. 50
5263	L	Ĺ		1.9E-02	AW 500705.1	EST HUMAN	ULHF-BN0-akm-e-08-0-UI.r1 NIH MGC 50 Homo sapiens cDNA done IMAGE:3077487 5
6999	18157			1.9E-02	AF037362.1	N I	Mus musculus T cell receptor gamma locus, TCR gamma 1 and gamma 3 gane clusters
5727	18309	30740	1.62	1.9E-02	L47572.1	Į,	Meleagris gallopavo pareoxonase-2 (PON2) mRNA, complete cds
6071	Ц		0.72	1.9E-02	AB019507.1	TN	Drosophila kanekoi gene for glycerol-3-phosphate dehydrogenase, complete cds
7529			0.52	1.95-02	AF101236.1	NT	Naja sputatrix neutral phospholipase A2 (NPLA2) gene, complete cds
7540			1.3		U19241.1	۲.	Homo saplens interferon-gamma receptor alpha chain gene, exon 1
55		32828	1.3			N	Homo saplens interferon-gamma receptor alpha chain gene, exon 1
9051	J		1.14			N-	Neisseria meningitdis serogroup A strain Z2491 complete genome; segment 3/7
9572	2 21895	34925	1.1	1.8E-02	BF316129.1	EST_HUMAN	601896130F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125462 6'

Top Hit Descriptor	П	Hirudo medicinalis intermediate filament gliarin mRNA, complete cds	Inn52c06.x1 NCI_CGAP_Co17 Homo sepiens cDNA clone IMAGE:3027274 3' similar to contains element MER29 repetitive element;	Г	H.francisci mRNA for myelin basic protein (MBP)	Pseudomonas aeruginosa PA01, section 105 of 529 of the complete genome	П		N MR1-OT0011-280300-009-g04 OT0011 Homo saplens cDNA	Г	N QV4-DT0021-301299-071-b11 DT0021 Homo saplens cDNA	T HYPOTHETICAL PROTEIN DJ846024.2	N ns31g09.s1 NCI_CGAP_GCB1 Hamo sapiens cDNA done IMAGE:1185280 3'	Neisseria meningitidis serogroup B strain MC58 section 160 of 206 of the complete genome	Neisseria meningitidis serogroup B strain MC58 section 160 of 208 of the complete genome	T HYPOTHETICAL 7.9 KD PROTEIN IN FIXW 5'REGION	N 601763268F1 NIH_MGC_20 Homo seplens cDNA clone IMAGE:4026280 5			T	L.stagnalis mRNA for myomodulin neuropaptida precursor	Homo saplens mRNA for KIAA0339 protein, partial cds	Homo sapiens mRNA for KIAA0339 protein, partial cds	Pyrococcus harlkoshii OT3 genomic DNA, 1166001-1485000 nt. position (6/7)	Zea mays acidic ribosomal protein P2a-3 (rpp2a-3) mRNA, partial cds	obe letters and (9994) 999 southers deals bedeing an expension and the set of the set of the set of the set of	I monthly the state of the stat	Т	┱	hf34s03.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2833740 3' similar to contains IN L1 repetitive element;
Top Hit Database Source	EST_HUMAN	LNT	EST HUMAN	EST_HUMAN	FN	ΓN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	SWISSPROT	EST_HUMAN	님	Ā	SWISSPROT	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	N	뉟	۲	Ę	F	E.V		Z	ESI HOMAN	EST_HUMAN
Тф Hit Acession No.	lm i	AF101065.1	AW771104.1	BF308122.1	X17664.1	AE004544.1		AW879122.1	AW879122.1	AA861446.1	AW936363.1	060810	AA649300.1	AE002518.1	AE002518.1	P14310	BF125690.1	BF125690.1		-	X96933.1	AB002337.2	AB002337.2 ·	2 AP000008.1	U62749.1	A E0004 40			2 DE394809.1	2 AW673183.1
Most Similar (Top) Hit BLAST E Value	1.9E-02	1.9E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	4 00 00	0.10.1	1.8E-02	1.75-02	1.7E-02
Expression Signal	1.4	2.88	1.91	99.0	1.53	5.81	0.63	1.09	1.09	1.13	1.74	1.07	6.0	0.53	0.53	4.66	0.59	0.59	2.08	1.78	1.59	2.11	2.11			1.24	1		1.20	1.42
ORF SEQ ID NO:		30781	25364	25683	26174	27629		78837	28838		29365	28823		32024	32025	32740	33267			35443	35562	35809		36782	36795				A7AC7	26780
Econ SEQ ID NO:	22473	24707	12950	13267	13731	15115	15722	16431	16431	16633	16979	17552	17948	19267	19267	19911		20390	22198	<u> </u>	L		22838	23722	23737	74897	L	L	13403	14295
Probe SEQ ID NO:	10072	11789	360	705	1190	2820	3169	9888	9888	4102	4459	6042	5463	1219	6721	7200	7953	7981	8783	10085	10195	11188	11186	11359	11375	80761	2	12399	RZZ	1769

Table 4 Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1769	14295	26781	142	1.7E-02	AW573183.1	EST HUMAN	hf34e03.x1 Soeres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2833740 3' similar to contains L1.t1 L1 repetitive element :
1841				1.7E-02	AL163204.2	TN	Hamo sepiens chromosame 21 segment HS210004
2033	14549		8.99		AB004816.1	NT	Orycitalingus cuniculus mRNA for mitsugumin 29, complete cds
2677	15073		1.4	1.7E-02	7657495 NT	LN	Homo saplens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA
2952	16507	27928	0.84	1.7E-02	AI147615.1	EST_HUMAN	qb22a08.x1 Soares_pregnant_uterus_NbHPU Homo sepiens cDNA clone IMAGE:1696982.3'
2070	1000		20.0	20 24 7	A 00070041A	MANUEL TOTAL	hm45a04.x1 NCI_CGAP_RDF1 Home sepiens cDNA done INAGE:3015534.3' similar to contains
7848	\perp		9.00	1.7E-02	AW 62/306.1	EST HUMAN	MENTALIS MENTAL STATEMENT OF THE STATEME
3622		İ		1./E-02	F04929	SWISSPROI	TISTICINE AICH GETCOPROCE
3815				1.7E-02	Q92503	SWISSPROT	SEC14-LIKE PROTEIN
3815	16352	28751	0.8	1.7E-02	Q92503	SWISSPROT	SEC14-LIKE PROTEIN
7407	40740		4 45	00 DE 1	A 0.00000 A	1444111	ac19f04.s1 Strategene ovary (#637217) Homo saplens cDNA clone IMAGE:856927 3' similar to contains Alu
4100	1		1.10	1./5-02		NAMUL I CE	repourte dell'allocation MENZA repourte della 1
4216	16741		1.73	1.7E-02	R02506.1	EST_HUMAN	ye86f08.r1 Soares fetal liver spieen 1NFLS Homo saplens cDNA clone IMAGE:124647 5
4484	17003	29389	1.19	1.7E-02	Al305279.1	EST_HUMAN	qm08g07.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881276 3' siπτίατ to gb:X52359 ZINC FINGER PROTEIN 30 (HUMAN);
							hf34a03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2833740 3' similar to contains
4564	17081	29467	1.34	1.7E-02	AW 573183.1	EST_HUMAN	L1.t1 L1 repetitive element;
4610	17128	29511	1.3	1.7E-02	AB003688.1	Į,	Homo saplens p27Klp1 gene for cyclin-dependent kinase inhibitor, 6'-flanking region and partial cds
	ı						
4610	_ [1.75-02		Z	nomo sapiens p./ N.p. i gene to cyclir-dependent whase uninotof, b-tienning region and parter cus
4765	5 17279	29862	1.96	1.7E-02	V00641.1	Ŋ	Messenger RNA for englerfish (Lophtus americanus) somatostatin II
4847	17359	29744	1.39	1.7E-02	P16170	SWISSPROT	NEURAL CELL ADHESION MOLECULE 1, LARGE ISOFORM PRECURSOR (N-CAM 180) [CONTAINS: N-CAM 140]
4870	17382		6.77	1.7E-02	A1015076.1	EST HUMAN	ov51e02.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1640858 3'
5479	17974		19.51	1.7E-02	AJ006345.1	N	Homo sapiens KVLQT1 gene
							wg35f09.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sepiens aDNA clone IMAGE:2367113 3' similar to
6438	18994	31725	1.84	1.7E-02	AI769247.1	EST_HUMAN	contains Alu repetitive element;
6819	19360		0.45	1.7E-02	228383.1	TN	T.niveum (ATCC34921) simA gene for cyclosporine synthetase
6932		32248	1.31	1.7E-02	A1038280.1	EST_HUMAN	oyesh03.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1672661 31
7481	19685	32482		1.7E-02	AF190930.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
7649	20095		1.94	ı	8400716 NT	TN	Homo sapiens nebulin (NEB), mRNA
7829	20270	33131		1.7E-02	L07899.1	NT	Human apolipoprotein (a) gene, exon 1

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7829		33132	16.0	1.7E-02	L07899.1	NT	Human apolipoprotein (a) gene, exon 1
8294	1 20710		1.72	1.7E-02	AJ010770.1	NT	Homo saplens hyperton gene, exons 1-50
9645	3 20936	33833	1.02	1.7E-02	U21854.1	NT	Caenorhabditis elegans cCAF1 protein gene, complete cds
9833	3 22236		1.5	1.7E-02	AL040554.1	EST_HUMAN	DKFZp43410314_r1 434 (syncanym: htes3) Homo sapiens cDNA clone DKFZp43410314 5'
12400	24892	30578	3.14	1.7E-02	AW 903482.1	EST_HUMAN	CM4-NN 1030-040400-130-106 NN 1030 Homo saplens cDNA
628	13101		2.29	1.6E-02	AL021929.1	NT	Mycobacterium tuberculosis H37Rv complete genome; segment 13/162
1658	14189	26681	4	1.6E-02	Y18889.1	늏	Treponema maltophilum flaB2, flaB3 and fliD genes for flagellin subunit proteins and CAP protein homologue
2260	14768		2.7	1.6E-02	4507102 NT		Homo sapiens small nuclear RNA activating complex, polypeptide 2, 45kD (SNAPC2) mRNA
2479	14980		1.34	1.6E-02	AJ006345.1	ĮN.	Homo sapiens KVLQT1 gene
2579	15075	27593	4.43		AA484872.1	I_HUMAN	ne81d06.s1 NCI_CGAP_Ew1 Homo saplens cDNA clane IMAGE:910e87
2642	15137		6.0	1.6E-02	AB014534.1	NT	Homo saplens mRNA for KIAA0634 protein, partial cds
2976	15531	27950	0.78	1.6E-02	AF112282.1	Į,	Lasaea sp. isolate IBd cytochrome oxidase III gene, partial cds; mitochondrial gene for mitochondrial product
3507	7 16050	28471	5.77	1.6E-02	AW850652.1	EST_HUMAN	L3-C70219-160200-063-C07 C70219 Hamo sapiens cDNA
3854	16390	28790	1.04	1.6E-02	AL163301.2	FX	Homo saplans chromosome 21 segment HS21C101
							Mus musculus major histocompatibility complex region NG27, NG28, RPS28, NADH oxdoreductase, NG29, KIFC1. Fas-binding protein BING1, tapastin RaIGDS-like, KF2, BING4, beta 1,3-galactosyl transferase, and
4192	16719		1.7	1.6E-02	AF110520.1	ኔ	RPS18 genes, complete cds; Sacm21 gene, partial>
6298	17798		77.0	1.6E-02	N80156.1	EST_HUMAN	za65e07.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:297444 3'
5351	17850	30207	0.91	1.6E-02	AL049802.1	TN	Novel human gene mapping to chomosome 13
5503			0.78		Al281385.1	EST_HUMAN	qu42b09.x1 NCI_CGAP_Lym5 Homo saplens cDNA clone IMAGE:1987417 3'
5891			1.27	1.6E-02	6671715 NT	NT	Mus musculus CD5 antigen (Cd5), mRNA
7006			2.16			NT	Candida albicans CaGCR3 gene, complete cds
7341			1.09			NT	Saccharomyces cerevisiae CAD2 gene for cadmium resistance protein, complete cds
7341	1 19753	32658	1.09	1.6E-02	AB027571.1	NT	Saccharomyces cerevisiae CAD2 gene for cadmium resistance protein, complete ods
8255	5 20672	33562	1.02		AL161508.2	ΙN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
8762			2.83		X05151.1	LΝ	Human apoC-II gene for preproapolipoprotein C-II
10067	7 22468		2.68	1.6E-02	AF079764.1	NT	Drosophila melanogaster enhancer of polycomb (E(Po)) mRNA, complete cds
10315	5 22716	35681	1.49	1.6€-02	AA572818.1	EST_HUMAN	nf19g03.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914260 similar to SW:TELO_RABIT P29294 TELOKIN. [1];
10315	5 22715	35682	1.49	1.6E-02	AA572818.1	EST HUMAN	nf19g03.s1 NCI_CGAP_Pr1 Homo sepiens cDNA clone IMAGE:914260 similar to SW:TELO_RABIT P29294 TELOKIN, [1]:
10690	1 (1.6E-02	294828.1	NT	G.gallus microsatellite DNA (LE10260 (=716iiiE11))

							6
Probe SEQ ID NO:	Econ SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10987	23416	36430	2.43	1.6E-02	AL161508.2	LN L	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
10987			2.43	1.6E-02	AL161508.2	NT.	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
11264	23630	36679	4.49	1.6E-02	AI373558.1	EST_HUMAN	qz86e10.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:2042442.3'
11772	18006		1.58			SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
11772	18006	30329	1.58	1.6E-02	Q64176	SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
12167	Ш		1.54	1.6E-02	X92751.1	N	R.norvegicus gene for choline acetyltransferase, exon 1 (non coding)
772	13332		16.07	1.5E-02	8923734 NT	N	Напо sapjens transcription factor (HSA130894), mRNA
2055	14570		2.38	1.6E-02	N39521.1	EST_HUMAN	y/27b07.s1 Soares fetal liver spiesn 1NFLS Homo sapiens cDNA clone IMAGE:243925 3'
2082	14596	27115	2.01	1.5E-02	AL161594.2	FN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 90
3723	16263	28668	0.94	1.6E-02	BF092942.1	EST_HUMAN	MR4-TN0115-080900-201-b12 TN0115 Homo sapiens cDNA
4160		29073	16.0	1.6E-02	AA160967.1	EST_HUMAN	zq40g10.r1 Strategene hNT neuron (#937233) Homo saplens cDNA clone IMAGE:632226 6'
6619	19169	31922	1.35	1.5E-02	Q09711	SWISSPROT	HYPOTHETICAL CALCIUM-BINDING PROTEIN C18B11.04 IN CHROMOSOME I
7783				1.5E-02	11467282 NT	TN.	Cyanophora paradoxa cyanelle, complete genome
7881	20320	33185	1.69	1.5E-02	11418713 NT	N	Homo sapiens KIAA1009 protein (KIAA1009), mRNA
8403			8.0	1.5E-02	AE004347.1	LN.	Vibrio cholerae chromosome II, section 4 of 93 of the complete chromosome
8544				1.5E-02	AL163303.2	NT	Homo saplens chromosome 21 segment HS21C103
8548			4.21	1.5E-02	11417739 NT	LZ LZ	Homo saplens valy-IRNA synthetase 2 (VARS2), mRNA
9237					BF345554.1	EST_HUMAN	602019135F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4154504 5'
9746			1.68	1.5E-02	D44606.1	NT	Saccharomyces cerevisiae chromosome VI plasmid GapC
0066		35244		1.5E-02	R32667.1	EST_HUMAN	yh54b10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:133531 5
9900	22302		26.0	1.5E-02	R32667.1	EST_HUMAN	yh54b10.r1 Soares placenta Nb2HP Homo sapiens cDNA done IMAGE:133531 5
10944	23376	36385	2.89	1.5E-02	L40609.1	TN	Plasmodium falciparum (strain FCR3) varient-specific surface protein (var-2, var-3) genes, complete cds/s
12001	24753		1.71	1.5E-02	4.	T HUMAN	RC4-CN0049-140100-011-c11 CN0049 Homo sapiens cDNA
434	13008		1.85	1.4E-02	AE002230.2	П	Chlamydophila pneumoniae AR39, section 58 of 94 of the complete genome
1145	13689	26129	4.42	1.4E-02	5980	LN LN	Homo saplens NESH protein (LOC\$1225), mRNA
1289	13824		1.13	1.4E-02	U32800.1	보	Haemophilus influenzae Rd section 115 of 163 of the complete genome
1330	13866		3.5	1.4E-02		NT	Xenopus laevis neurogenin related 1b (X-NGNR-1b) mRNA, complete cds
2517	15017	27531	10.35	1.4E-02	6996918 NT	N	Mus musculus histocompatibility 2, complement component factor B (H2-Bf), mRNA
3174	15724	28144	164	1 45-02	AE160080 2	LΝ	Bifidobacterium longum Na+/H+ antiporter (nhsB), cytosine deaminase, and alpha-galactosidase (agil.)
3376	L			1.4E-02	AW0742121	T HI IMAN	secret company cut, and it doubter content of the c
3460				1 4F-02	AI 181586 2		Arabidonsis thaliana DNA chromosoma 4 confin framont No. 82
	ŀ				1000		transchool state of the control of t

Table 4 Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similer (Top) Hit BLAST E Vælue	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
3460	16004	28424	6:39	1.4E-02	AL161586.2	IN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 82
3500	16043	28464	9.0	1.4E-02	4503628 NT	NT	Homo sapiens coagulation factor XII (Hageman factor) (F12), mRNA
3658	16196	28603	8.28	1.4E-02	FN 8169689	N	Mus musculus histocompatibility 2, complement component factor B (H2-Bf), mRNA
4525		29423	6.6	1.4E-02	AW962688.1	EST_HUMAN	EST374761 MAGE resequences, MAGG Homo sapiens cDNA
4525	17043	28424	6.6	1.4E-02	AW962688.1	EST_HUMAN	EST374761 MAGE resequences, MAGG Homo sapiens cDNA
4935		29821	6.98	1.4E-02	BE733142.1	EST_HUMAN	601567403F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3842280 5'
4835	17446	29822	86.9	1.4E-02		EST_HUMAN	601567403F1 NIH_MGC_21 Hamo saplens cDNA clone IMAGE:3842280 51
4886	17506		1.01	1.4E-02	BF329846.1	EST_HUMAN	RC5-BN0283-120800-033-E02 BN0283 Homo saplens cDNA
5218	17721			1.4E-02	D10014.1	뉟	Homo sapiens CYP2E1 gene for cytochrome P450IIE1, promoter region and partial cds
6229	17731	30100	0.65	1.4E-02	AW948453.1	EST_HUMAN	CM0-FN0041-120500-370-h09 FN0041 Homo sapiens cDNA
6074	24982		0.71	1.4E-02	X91338.1	LN LN	H. saplens La/SS-B pseudogene 3
7350	40007		70,	. 17		100	n111c04.s1 NCI_CGAP_Br2 Homo saplens oDNA clone IMAGE:1028990 3' similar to contains Alu repetitive
Ď D	18781	32002	16.4	1.45-02	AA558030.1	ESI HUMAN	genent,
į			į	ļ			n111c04.s1 NCI_CGAP_Br2 Homo saplens cDNA clone IMAGE:1029990 3' similar to contains Alu repetitive
8	L	32023	4.91	1.4E-0Z		ESI HUMAN	dement;
8729				1.4E-02	AL022073.1	L	Mycobacterium tuberculosis H37Rv complete genome; segment 88/162
9276	╝			1.4E-02	M81702.1	NT	Candida boldhil methanol oxidase (AOD1) gene, complete cds
8442	21873	34791	1.47	1.4E-02	AJ272265.1	LN	Homo saplens SPP2 gene for secreted phosphoprotein 24 precursor, exons 1-8
9820		34966	2.42	1.4E-02	BE544561.1	EST_HUMAN	601078239F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464241 5'
10408			68.0	1.4E-02	AL163218.2	NT	Homo saplens chromosome 21 segment HS21C018
11679	23988	36556	5.72	1.4E-02	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
12124			2.19	1.4E-02	ZZ3080.1	TN	C.acetobutylicum dnaE and sigA genes for primase and major vegetative sigma factor
12368			22.2	1.4E-02	I	NT	Homo saplens sperm associated antigen 7 (SPAG7), mRNA
1835	14357		6.0	1.3E-02	BE739263.1	EST_HUMAN	601556462F1 NIH_MGC_68 Homo saplens cDNA clone IMAGE:3826335 5
1905	14424	26921	1.33	1.3E-02	AL163201.2	TN	Homo saplens chromosome 21 segment HS21C001
3172			21.2	1.3E-02	BF697081.1	EST_HUMAN	602/29475F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:4286203 5'
3172		28146	2.12	1.3E-02	BF697081.1	<u>'</u>	802129475F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:4286203 5
3983	16518		1.59	1.3E-02	AF169288.1	۲	Mus musoulus beta-earcoglycan gene, complete cds
					_		Mus musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zinc finger protein 275, Zino
5495	18086	30380	1.36	1.3E-02	AL049868.2	Ä	finger protein 92, mmxq28arf
-			,			!	Mus musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zinc finger protein 275, Zinc
0480	18086	30381	1.36	1.3E-02	AL049866.2	Į.	finger protein 92, mmxq28arf
6478	19033	31771	1.04	1.3E-02	U80017.1	ᅜ	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory · protein (naip) and survival motor neuron protein (smn) genes, complete cds

Table 4
Single Exon Probes Expressed In Lung

Top Hit Descriptor	C.reinhardiii ribulose 1,5-bisphosphate carboxylase/oxygenase activase mRNA, complete cds	Arabidopsis thallana DNA chromosome 4, contig fragment No. 46	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 46	ow08g05x1 Scares_parathyroid_tumor_NbHPA Homo sapiens oDNA olone IMAGE:1646072.3' similar to	Homo saplens exostoses-like protein 1 (EXTL1) gane, exons 2 through 11, and complete cds	Homo saplens human endogenous retrovirue W gagC3.37 G gag (gag) gene, complete cds	Mouse kidney androgen-regulated protein (KAP) gene, complete cds	Chlamydia trachomatis section 31 of 87 of the complete genome	xx34e03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:28150363'	xx34e03.x1 Soares_NFL_T_GBC_S1 Homo septens cDNA dane IMAGE:28150363'	Yeast ABP1 gene for actin binding protein	Bacillus subtilis complete genome (section 14 of 21); from 2598451 to 2812870	Human herpesvirus 6B, complete genome	Homo sapiens V1b vasopressin receptor (VPR3) gene, complete cds	Oryza sativa replication protein A1 (Os-RPA1) mRNA, complete cds	H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14	genes	285g01.r1 Soares retina N2b4HR Homo sapiens cDNA cione IMAGE:381840 5' similar to contains element L1 repetitive element ;	HYPOTHETICAL 17.1 KD PROTEIN IN PUR5 3 REGION	qd88e12x1 Scares_testis_NHT Homo saplens cDNA clone IMAGE:1734670 3' similar to contains L1.t1 L1	repetitive element;	Homo saplens chromosome 21 segment HS210013	601068406F1 NIH_MGC_10 Homo septens cDNA clone IMAGE:3454608 5	601068406F1 NIH_MGC_10 Homo septens oDNA clone IMAGE:3454608 5'	x/37e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2659432 3'	zm88e03.r1 Stratagene ovarian cancer (#937219) Homo sapiens cDNA clone IMAGE:545020 5'	y11b08.s1 Soares placenta Nb2HP Homo sepiens cDNA clone IMAGE:138903 3'	zb68e07.x5 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:308532.3' similar to contains	element wichte febeuwe erement. wm39f04 x1 NCL CGAP Lits Home seplens cDNA clone IMACE-243833531	Mile miscaline interferon remulation factor 5 (195) mRNA	ווות בשיוות בשיות בחון ובלתושיהו לו ושייה ילונים לי וווי הגד
Top Hit Database Source	L	NT	NT	NAMI II TOB	N	N	NT		EST_HUMAN	THUMAN	NT	N L	Į.	N	님		뉟	EST HUMAN	SWISSPROT		EST_HUMAN	IN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN		ENT HIMAN	L L	
Top Hit Acession No.	V62962.1	AL161548.2	AL161546.2	A 1024 FO3 4	AF153980.1	AF156961.1	M63707.1	AE001304.1	AW 268563.1	AW 268563.1	X51780.1	299117.1	P633069 NT	AF152238.1	AF009179.1		XB7344.1	AA059299.1	P38898		AI183522.1	AL163213.2	BE538310.1	BE538310.1	AW172350.1	AA075418.1	R62805.1	,	AI887378 1	RZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	1000010
Most Similar (Top) Hit BLAST E	1.3E-02	1.3E-02	1.3E-02	4 35 00	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02			1.2E-02	1.2E-02	1.2E-02		1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.2E-02	10,	1.2E-02	1 25 03	190-177-1
Expression Signal	0.8	1.61	1.61	20.20	0.51	1.6	1.89	1.03	4.26	4.28	1.88	1.7	2.18	10.5	1.56		0.68	404	2.12		7.25	1.13	4.78	4.78	1.89	7.19	2.25		4.02	284	10.2
ORF SEQ ID NO:	31808			23.404		L	35548	35596		36194					30468			25376			25748	27117	27425	27428	27366		28217			20830	╛
Exan SEQ ID NO:	19066	18047	18047	20824	20928	21422	22683	22832	23211	23211	24921	24910	24298	24673	24960	<u></u>	12822	12958	13044	_	13319	14599	14907	14907	14848	15617	15800		17290	1	
Probe SEQ ID NO:	8512	7377	7377	Ya Ca	8517	8988	10182	10231	10773	10773	11655	12083	12176	12374	12598		220	369	470		759	2085	2403	2403	2671	3063	3249	0.00	3232	4042	101

Probe SEQ ID NO:	Excan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4989	17499	29874	2.35	1.2E-02	U91328.1	N	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
5149	17663		1.33	1.2E-02	1.2E-02 AB019786.1	TN	Cynops pyrrhogaster CpUbiqT mRNA, partial cds
5215	17718	30084	1.68	1.2E-02	1.2E-02 AV731704.1	EST_HUMAN	AV731704 HTF Hamo septens cDNA clone HTFBHG11 5
5955	18531		0.52		1.2E-02 AA759018.1	EST_HUMAN	ai29f10.s1 Soares_testis_NHT Hamo sapiens cDNA clone 1344235 3*
6031	18605	31292	2.17		D78589.1	NT	Rana rugosa mRNA for calreticulin, complete cds
6428	18984	31717	69 0		1.2E-02 AF045555.1	Į,	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
7428	_				1.2E-02 AF175412.1	F	Mus musculus DNA methyltransferase (Drmt1) gene, exons 2, 3, 4, and 6
7750	20194		1.15		H02197.1	EST_HUMAN	y34h12.s1 Soares placenta Nb2HP Homo saplens cDNA clone IMAGE:150695 3'
7776	L	33080		L	AV732093.1	EST_HUMAN	AV732093 HTF Homo saplens cDNA clone HTFBJC09 5'
8071	20500	l	0.67		1.2E-02 BF216650.1	EST_HUMAN	601882949F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4095253 6
							CMP-N-ACETYLNEURAMINATE-BETA-GALACTOSAMIDE-ALPHA-2,3-SIALYLTRANSFERASE (BETA-
8632	21067	33976	2.16	· 1.2E-02	Q11205	SWISSPROT	GALNACAZPHA-2,3-SIALYLTRANSFERASE) (ST3GALA.2) (SIAT4-B)
8769	21203	34105	1.36		AF193612.1	Ę	Homo sapiens fringe protein mRNA, partial cds
8769	21203	34106	1.36		AF183612.1	ΤΛ	Homo sapiens fringe protein mRNA, partial cds
9270			0.97		T76987.1	EST_HUMAN	yd72c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:113774 3'
9790	22193	35130	2.68		AB031013.1	IN	Norwalk-like virus genogroup 2 gene for capsid protein, complete cds
9812	22215	35151	1.36	1.25-02 /	AJ246003.1	TN	Homo saplens Spast gene for spastin protein
11736	24025	31012	1.4		015534	SWISSPROT	PERIOD CIRCADIAN PROTEIN 1 (CIRCADIAN PACEMAKER PROTEIN RIGUI) (HPER)
12384	24427		6.09		C18119.1	EST_HUMAN	C18119 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-557G08 5'
12614	24584		1.24	1.2E-02	X95450.1	NT	Endogenous sheep retrovirus LTR, locus 6
1302	13837		1.22		AA070364.1	EST_HUMAN	zn69e11.s1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:530924 3'
1704			1.6	1.1E-02	X75491.1	ΙN	H.sapiens LIPA gene, exon 4
1704	14232	•	1.6	1.1E-02	X75491.1	N	H.seplens LIPA gene, exon 4
1970	14488	26996	3.17	1.1E-02	BF345263.1	EST_HUMAN	602018037F1 NCI_CGAP_Brn67 Hamo saplens cDNA clane IMAGE:4153808 5'
2832	15388		3.63	1.1E-02	N99523.1	EST_HUMAN	za40e05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295040 5'
3504	16047	28489	2.98	1.1E-02	A1653508.1	EST_HUMAN	1995b10.x1 NCI_CGAP_Ov23 Homo sepiens cDNA clone IMAGE:2216539 3' stmilær to SW:XPF_HUMAN Q92889 DNA-REPAIR PROTEIN COMPLEMENTING XP-F CELL;
4033	16566	3	3		BE144637:1	EST_HUMAN	PM3-HT0175-300999-001-h06 HT0175 Hamo sapiens cDNA
4123	16652	,	0.9	1.1E-02	AW813786.1	EST_HUMAN	RC3-ST0197-120200-015-g11 ST0197 Homo saplens cDNA
4886	17398	3 29769	1.53	1.1E-02	AL048383.2	EST_HUMAN	DKFZp588E0924_s1 598 (synonym: huts1) Homo saplens cDNA clone DKFZp588E0924

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2067	14582	27100	1.18	8.0E-03	AL163283.2	TN	Homo saplens chromosome 21 segment HS21C083
2462	14984	27473	8.7	8.0E-03	P10266	SWISSPROT	RETROVIRUS RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
3334	15881	28302	1.2	8.0E-03	AJ131016.1	FN	Homo saplens SCL gene locus
3675	Ш		1.44	8.0E-03	P32644	SWISSPROT	HYPOTHETICAL 127.0 KD PROTEIN IN RAD24-BMH1 INTERGENIC REGION
3675			1.44	8.0E-03	P32644	SWISSPROT	HYPOTHETICAL 127.0 KD PROTEIN IN RAD24-BMH1 INTERGENIC REGION
4273	16798		1.35	8.0E-03	BE840049.1	EST_HUMAN	QV0-FN0181-140700-304-g10 FN0181 Homo saplens cDNA
4405			6.24	8.0E-03	BF363327.1	EST_HUMAN	CM4-NN0119-300600-223-b05 NN0119 Homo septens cDNA
4768	17282		0.77	8.0E-03	P03181	SWISSPROT	HYPOTHETICAL BHLF1 PROTEIN
4768	17282	29667	0.77	8.0E-03	P03181	SWISSPROT	HYPOTHETICAL BHLF1 PROTEIN
							Mus musculus major histocompatibility camplex region NGZ7, NG28, RPS28, NADH axidoreductase, NG29,
			i c	L			KIFC1, Fas-binding protein, BING1, tapasin, RalGDS-like, KE2, BING4, beta 1,3-galactosy transferase, and
CR/C	_[cn:s	8.05-03	AF110520.1	Z	INFS18 genes, complete cas; Sacmz1 gene, partais
6513			1.4		AP000002.1	LN.	Pyrococcus harikashli OT3 genanic DNA, 287001-544000 nt. positian (217)
7130	19663	32458	5.46	8.0E-03	P55577	SWISSPROT	PROBABLE PEPTIDASE YANA
7328			1.2	8.0E-03	V01109.1	NT	Human BK virus (strain MM) genome. (Closely related to SV40.)
7653		32951	1.43		M17197.1	LN	A.californica (marine gastropod moliusc) neuropeptide gene (bag cell), exon 1, 5' end
8055			1.91	8.0E-03	AB038267.1	IN	Tursiops truncatus mRNA for p40-phox, complete cds
. 9286		34627	4.1	8.0E-03	AW808692.1	EST_HUMAN	MR1-ST0111-111199-011-h06 ST0111 Hamo saplens cDNA
8686	3 22400		9.9	8.0E-03	BE088509.1	EST_HUMAN	QV1-BT0677-040400-131-903 BT0677 Homo sapiens cDNA
10549		35979	2.5	8.0E-03		EST_HUMAN	601475619F1 NIH_MGC_68 Hamo sepiens cDNA dane IMAGE:3878405 5'
10766			2.46	8.0E-03	Z49652.1	IN	S.cerevisiae chromosome X reading frame ORF YJR162w
11085				8.0E-03		EST_HUMAN	CM4-NN0119-300600-223-b05 NN0119 Hamo sapiens cDNA
11437		36856	6.85	8.0E-03	AF064589.1	LΝ	Homo saplens melanoma-associated antigen (MAGE-C1) gene, complete cds
11625	3 23953		1.74	8.0E-03	M69035.1	TN	Oryctolagus cuniculus eIF-2a kinase mRNA, complete cds
,				-			Homo sapiens ABCG1 gene for ABC transporter (ATP-binding cassette, sub-family G (WHITE), member 1),
110/4			۱			z	complete cas
714		25695			AF097183.1	NT	Cryptosporidium parvum HC-10 gene, complete cds
714					AF097183.1	NT	Cryptosporidium parvum HC-10 gene, complete cds
1001					AF243376.1	N _T	Glycine max glutathione S-transferase GST 21 mRNA, partial cds
1143	13687	26127	4.32	7.0E-03	AV731712.1	EST_HUMAN	AV731712 HTF Home sapiens cDNA clone HTFAZF10 5'
1396	13930		1.18	2.05-03	061060	SWISSPROT	FORKHEAD BOX PROTEIN D3 (HNF3/FH TRANSCRIPTION FACTOR GENESIS) (HEPATOCYTE NUCLEAR FACTOR 3 FORKHEAD HOMOLOG 2) (HFH-2)
1427	1	26418			AAGGROOR 1	MAM!H TAT	AP70000 st Straturana (atal ratina 037202 Homo caniana c7NA ciema IMAGE-863145 3
	1			ı	Access.	11011011	ביין כיים מומוס ביים של היים ביים ביים ביים ביים ביים ביים ביים

Table 4
Single Exon Probes Expressed in Lung

		_			_	_								_	_		_	_			_					_		
Birth III popolation of the control of the	Top Hit Descriptor	xv21b02x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:2813739 3'	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR	hn67h07.x1 NCI_CGAP_Kid11 Homo sepiene cDNA clone IMAGE:3032989 3' similar to contains Alu repetitive element;	qf34h02.x1 Soares_testis_NHT Hamo sapiens cDNA clone IMAGE:1751955 3.	UI-H-Bi3-akb-o-10-0-UI,s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733691 3'	Rettus norvegicus neuronal nicctinic acetylcholine receptor subunit (Alpha10) mRNA, complete cds	Dictyostalium discoideum multidrug resistance transporter/Ser protease (tagC) mRNA, complete cds	xe34f09.x1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:2609033 3' similar to TR:Q12987 Q12997 ACIDIC 82 KDA PROTEIN.;	hh89a05,y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969936 5	Homo sapiens chromosome 21 segment HS21C078	y82g01.r1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA done IMAGE:211824 5' similar to gb:X14723 CLUSTERIN PRECURSOR (HUMAN);	RC1-CT0288-050400-018-c08 CT0288 Homo sapiens cDNA	zd33f10.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:342475 5	EST30674 Colon I Homo seplens cDNA 6' end	7g34b10.x1 NCL_CGAP_Bm23 Homo sapiens cDNA done IMAGE:3308347 3' similar to TR:Q13387 Q13387 HYPOTHETICAL PROTEIN 384D8_2. ;contains TAR1.t2 TAR1 Tepetitive element;	CM2-CT0478-230800-347-b11 CT0478 Homo sapiens cDNA .	S.cerevisiae chromosome II reading frame ORF YBL077w	S.cerevisiae chromosome II reading frame ORF YBL077w	RC5-HT0582-160300-011-D02 HT0582 Homo sapiens cDNA	BETA-GALACTOSIDASE PRECURSOR (LACTASE)	BETA-GALACTOSIDASE PRECURSOR (LACTASE)	AV687379 GKC Homo sapiens cDNA dona GKCAFC07 6'	wc37e09x1 NCI_CGAP_Pr28 Homo sepiens cDNA clone IMAGE:2320840 3'	Bos taurus mRNA for NDP52, complete cds	Homo sapiens partial MUC5B gene, exon 1-29	Homo saplens partial MUC5B gene, exon 1-29	yv15h01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:242833 3' similar to contains Atu repetitive element;
SI I I IOVI DIS	Top Hit Database Source	EST HUMAN	SWISSPROT	EST HUMAN	EST_HUMAN	EST HUMAN	TN	Ę	EST HUMAN	EST_HUMAN	¥	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	ΤN	EST_HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	TN	ΝΤ	TN	EST_HUMAN
	Top Hit Acession No.	AW303599.1	P04929	AW772132.1			AF196344.1	U60086.1	AW117711.1			H71106.1	AW861059.1	W68251.1	AA327129.1	BE857385.1	BE928133.1	235838.1	Z35838.1	BE175867.1	P48982	P48982	AV687379.1	ı			AJ004882.1	H94065.1
	Most Similar (Top) Hit BLAST E Value	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03
	Expression Signal	2.95	1.19	2.31			1.01	18.0	1.05	1.01	1.84	8.0	3.97	1.58	2.98	96'0	1.68	4.17	4.17	2.67	2.88	2.88	1.19	1.01			4.85	1.59
	ORF SEQ ID NO:	26522			28504		28757								32202	32235			33333	34050		35188					36103	
	SEQ ID NO:	14062	15330	15062]		16357	16883	17088		17597	18673	24608	19190	19428	19457							22644				23123	24967
	Probe SEQ ID NO:	1530	2162	2663	3545	3767	3820	4361	4571	4639	5087	6104	6423	6642	6888	6918	7515	8026	8026	8712	9849	9849	10243	10366	10608	10683	10683	12202

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Probe SEQ ID S NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
12208	24324		1.88	7.0E-03	7.0E-03 BE263253.1	EST_HUMAN	601145154F2 NIH MGC_19 Homo saplens cDNA clone IMAGE:3160476 5'
12316	24392		1.58	7.0E-03 Y	17455.1	IN	Homo sapiens LSFR2 gene, penultimate exon
12469	24963		1.65	7.0E-03	7.0E-03 AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
1273	13810	26260	10.91	6.0E-03	6.0E-03 AW611148.1	EST_HUMAN	hdzza05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910224.3' similar to SW:PXR_HUMAN 075469 ORPHAN NUCLEAR RECEPTOR PXR;
1273	13810			6.0E-03		EST HUMAN	hd22a05.x1 Sogres_NFL_T_GBC_S1 Homo espiens cDNA clone IMAGE:2910224 3' similær to SW:PXR_HUMAN 075469 ORPHAN NUCLEAR RECEPTOR PXR ;
2730	15220	L				LZ	Danio rerio odorant receptor gene ciuster
2844	15400	L		١.	6.0E-03 AA759135.1	EST HUMAN	ah78e11.s1 Soares_testis_NHT Homo saplens cDNA clone 1321772 3'
2844	15400				AA759135.1	EST_HUMAN	ah78e11.s1 Soares_testis_NHT Homo sapiens cDNA clone 1321772 3'
3205	15757				6.0E-03 H76690.1	EST_HUMAN	yr77h04.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:211351 5'
3268	15819		0.74	6.0E-03	AF190338.1	LN	Notoncus sp. cytochrome o oddese subunit II gene, partial ods; mitochondrial gene for mitochondrial product
3360	15906	28327	1.15	6.0E-03	U90880.1	LN	Fugu rubripes zinc finger protein, isotocin, fatty ecid binding protein, sepiapterin reductase and vasotocin genes, complete cds
8	7				<u> </u>	H	Fugu rubripes zinc finger protein, isotocin, fatty acid binding protein, sepiapterin reductase and vasotocin
3531	16074					EST HUMAN	2013a11.11 Soares_parathyroid_tumor_NbHPA Homo sepiens cDNA clone IMAGE:322172.5'
3659	16189				BF510986.1	EST HUMAN	UI-H-BI4-apm-c-08-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3087754 3'
3778	16316	28716		L		Į.	Mus musculus glucosamine-8-phosphate deaminase (Gnpl), mRNA
3835	16470				6.0E-03 AW847284.1	EST_HUMAN	RC0-CT0204-240999-021-b10 CT0204 Homo seplens cDNA
3970	16505		1.5		6.0E-03 BE250108.1	EST_HUMAN	800942904F1 NIH_MGC_15 Homo sepiens cDNA clone IMAGE:2959513 5
4348	16870		4.03		N58946.1	EST_HUMAN	yy62h10.s1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:278179 3'
4385	16907		1.63	6.0E-03	A1016833.1	EST_HUMAN	ov33c11 x1 Scares_testis_NHT Homo septens cDNA clone IMAGE:1639124 3'
4745	17259	29639	8	6.0E-03	AA324242.1	EST_HUMAN	EST27116 Cerebellum II Homo sapiens cDNA 5' end similar to EST containing Alu repeat
6277	17778		1.02	6.0E-03	L34170.1	TN	Human germline UBE1L gene similar to the gene for ubiquitin-activating enzyme, exons 1-22
5363	17861	30219	0.71		AA889972.1	EST_HUMAN	aj95g09.s1 Scares_parethyroid_tumor_NbHPA Homo saptens cDNA clone (MAGE:14042563'
5403	17899		0.89	6.0E-03	P38650	SWISSPROT	DYNEIN HEAVY CHAIN, CYTOSOLIC (DYHC) (MAP 1C)
2772	4 7007		107	00 100	DE047464 4	MAN UI TOO	hq75h07.x1 NCI_CGAP_Ov41 Homo saplens cDNA clone IMAGE:3125245 3' similar to TR:O70395 O70395 INVOSIN XX semislars All repositive element-contains element TAR4 repositive element :
8468	24609	31755			3	N I	Variola virus, complete genome
7207	19918				014994	SWISSPROT	SYNAPSIN III
7254	18028	ļ			BE253748.1	EST_HUMAN	601112353F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353172 6'
7699	20144	33001	0.45	6.0E-03	AA299442.1	EST_HUMAN	EST11849 Uterus tumor I Homo sepiens cDNA 5' end

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7699				6.0E-03	A299442.1	EST_HUMAN	EST11949 Uterus tumor I Homo septens cDNA 6' end
8177	20599		92'0	6.0E-03	F128894.1	NT	Homo septens telomerase reverse transcriptase (TERT) gene, exons 7-18 and complete cds
8394	20808	33707	0.68	6.0E-03 P.17964		SWISSPROT	RAS-RELATED PROTEIN RAP-2B
8450	20864	33766	0.64	6.0E-03	6.0E-03 AJ243211.1	NT	Homo saplens DMBT1 candidate tumour suppressor gene, exons 1 to 55
8531	20966	33868	5.04	6.0E-03	6.0E-03 A(033980.1	EST HUMAN	ow13e04x1 Soares_parathyroid_tumor_NbHPA Homo saplens cDNA clone IMAGE:1646670 3' similar to contains MER10.b1 MER10 repetitive element;
8613				6.0E-03	-	EST HUMAN	RC0-UM0051-210300-032-g02 UM0061 Homo sapiens cDNA
8664	21099		1.22	6.0E-03 B		EST_HUMAN	601454915F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:3858626 57
9734		34990	7.06	6.0E-03	10548.1	Į.	Subacute sclerosing panencephalitis (SSPE) virus mRNA for fusion protein
10070	22471		2.21	6.0E-03		EST_HUMAN	622602.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2131202.3' similar to SW:R13A_HUMAN_P40429 60S RIBOSOMAL PROTEIN L13A;
10157	22558	35526	1.04	6.0E-03		Ę	Bacillus subtilis fenD gene
10238	22839		0.98	6.0E-03	AF084555.1	Ę	Homo sepiens okadalo acid-inducible and cAMP-regulated phosphoprotein 19 (ARPP-19) mRNA, complete cds
10593			1.89	6.0E-03	!	NT	Homo sepiens hypothetical zinc finger protein FLJ14011 (FLJ14011), mRNA
10763	23201		6.04	6.0E-03	U14558.1	N	Mus musculus zino-finger protein mRNA, complete cds
10764		36187	3.1	EO-⊒0:9	3E737895.1	EST_HUMAN	601572746F1 NIH_MGC_67 Homo sepiens cDNA clone IMAGE:3839747 6'
11744			1.89	6.0E-03	\F010498.1	E	Rhodobacter capsulatus strain SB1003, partial genome
11852	24784		1.49	6.0E-03	BF671185.1	EST_HUMAN	602161024F1 NIH_MGC_81 Homo saplens cDNA clone IMAGE:4292212 5'
11878	24710		6.13	6.05-03	AE000833.1	NT	Methanobacterium thermoautotrophicum from bases 429192 to 450296 (section 39 of 148) of the complete genome
11958	24778		2.44	6.0E-03	U30790.1	TN	Pneumocystis carinil f. sp. ratti guanine nucleotide binding protein alpha subunit (pcg1) gene, complete cds
12012	_		1.4	6.0E-03	Q62209	SWISSPROT	SYNAPTONEMAL COMPLEX PROTEIN 1 (SCP-1 PROTEIN)
12334			1.46		3E788019.1	EST_HUMAN	601482621F1 NIH_MGC_68 Homo saplens cDNA clone IMAGE:3885388 5
12356	24415		1.25	6.0E-03	AJ245480.1	۲	Brassica napus sig gene for S-locus giycoprotein, cultivar T2
889	13252	25668	2.31	5.0E-03	L25105.1	F	Chlamydia trachomatis partial ORFB; aminoacyt-tRNA synthase, complete cds; complete ORFA, and grpE- like protein, complete cds
008	49050	ussau.	200	20 20	200		Chlamydla trachomatis partial ORFB, aminoacyl-tRNA synthase, complete cds; complete ORFA, and grpE-
8				3.00-03	1.50105.1	2	line protein, whilpiete dus Chlamurile freshametis narifel ORER: emitosent tRNA sunthese commists and complete and commists.
689	13252	25668	4.36	5.0E-03	L25105.1	Į,	Constitution and recognition of the property of the protein, complete des
689	13252	25669	4.36	5.0E-03	L25106.1	NŢ	Chlamydia frachomatis partial ORFB; aminoacyl-tRNA synthase, complete cds; complete ORFA, and grpE- ilke protein, complete cds
	ļ	I					

Table 4 Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1139	13683		1.29		AJ010457.1	TN	Arabidopsis thaliana mRNA for DEAD box RNA helicase,RH3
2623	15118		10.54	5.0E-03	AB033006.1	TN	Homo sapiens mRNA for KIAA1180 protein, partial cds
2889	15444	27867	69'0		BE266057.1	EST_HUMAN	601194796F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE;3538799 5'
3097		28063	4.21	5.0E-03	T87623.1	EST_HUMAN	yc81f09.s1 Soares Infant brain 1NIB Homo saplens cDNA clone IMAGE:22396 3'
3113	15666		2.18	6.0E-03	AL161491.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 3
3125	15678	28093	1.05	5.0E-03	R71794.1	EST_HUMAN	y/88g02.s1 Soares breast 2NbHBst Homo saplens cDNA clone IMAGE:155668 3'
3240	15791		68.0	5.05-03	AJ297357.1	NT	Homo sapiens partial LIMD1 gene for LIM domains containing protein 1 and KIAA0861 gene
3665				6.0E-03	AL163285.2	IN	Homo sapiens chromosome 21 segment HS21C085
3698			4.59	5.0E-03	AF147449.2	LN	Pesudomonas aeruginosa strain PAO1 penicillin-binding protein 18 (ponB) gene, complete cds
3769	16298		2.0	5.0E-03	U38914.1	NT	Citrus shrensis seed storage protein citrin mRNA, complete ods
3986	16520		1.95		AA299675.1	EST_HUMAN	EST12218 Uterus tumor I Homo sapiens cDNA 5' end
4142	16670		0.66	5.0E-03	AJ002125.1	L	Natrix domestica Zfx type gene
4323	16846	29234		5.05-03	H78355.1	EST HUMAN	w/9g10.r1 Soares fetal liver splean 1NFLS Homo sepiene cDNA clone IMAGE:240068 61
4326	16298		0.0	5.0E-03	U38914.1	FN	Citrus sinensis seed storage protein citrin mRNA, complete cds
4649	17165	29544	62'0	5.0E-03	AJ131016.1	۲	Homo saplens SCL gene locus
4770	17284	29669	1.83	5.0E-03	A1752367.1	EST HUMAN	on15c02.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC cn16c02 random
5013		L		6.0E-03	3 P16265	SWISSPROT	SPERM MITOCHONDRIAL CAPSULE SELENOPROTEIN (MCS)
5383	3 17880		1.18	5.0E-03	5.0E-03 AF171866.1	NT NT	Bos taurus acidio alpha-glucosidase gene, exons 2 through 20 and complete cds
6079	18650	31344	6.29	5.0E-03 P35500	P35500	SWISSPROT	SODIUM CHANNEL PROTEIN PARA (PARALYTIC PROTEIN)
0.00		77070		L			PROBABLE UBIQUITIN CARBOXYL-TERMINAL HYDROLASE FAF-Y (UBIQUITIN THIOLESTERASE FAF-Y) (UBIQUITIN-SPECIFIC PROCESSING PROTEASE FAF-Y) (DEUBIQUITIN-SPECIFIC BROYME FAF-Y) (FAT FACETS PROTEIN RELATED, Y-LINKED) (UBIQUITIN-SPECIFIC PROTEASE 9, Y
8387	L	1	33.7	5.0E-03 OE00307	AEOOOO	DYLOGIMO	Chlamufunhita ma impalae AR30 sertion R2 of 04 of the complete genome
6949	Ĺ		732	5.0E-03	5.0E-03 BE300091.1	EST HIMAN	800944564T1 NIH MGC 17 Homo sepiens cDNA clone IMAGE:2960871 3'
7243		30431	8.07	5.0E-03	5.0E-03 AB025024.1	Į.	Mus musculus AMD1 gene for S-adenosylmethlonine decarboxylase, complete cds
7469	_		0.91	5.0E-03	5.0E-03 AB038267.1	뉟	Tursiops truncatus mRNA for p40-phox, complete cds
7526	3 19977	32812		5.0E-03	6753651 NT	Į.	Mus musculus dynein, axon, heavy chain 11 (Dnaho11), mRNA
				1			EST03012 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCR93 similar to EST
1989	_ [.	33268		5.0E-03	5.05-03 105124.1	EST HOMAN	containing Alu repeat
8123	\Box			5.0E-03	5.0E-03 AW854327.1	EST_HUMAN	RC3-CT0255-031099-011-f07 CT0255 Homo saplens cDNA
8323	3 20738	33633	8.85	5.0E-03	5.0E-03 AB016816.1	LN	Homo saplens MASL1 mRNA, complete cds

Top Hit Descriptor	ADAM-TS 5 PRECURSOR (A DISINTEGRÎN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 5) (ADAMTS-5) (ADAM-TS5) (AGGRECANASE-2) (ADMP-2) (IMPLANTIN)	ADAM-TS 5 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 5) (ADAMTS-5) (ADAM-TS5) (AGGRECANASE-2) (ADMP-2) (IMPLANTIN)	BETA-GALACTOSIDASE PRECURSOR (LACTASE)	Mouse complement receptor (CR2) mRNA, 3' end	Escherichia coli genomic DNA. (19.1 - 19.4 min)	Piasmodium berghei 68 kDa phosphoprotein mRNA, partial cds	694F Heart Homo seplens cDNA clone 694	xn58g05.x1 Soares_NHCeC_cervical_tumor Homo saptens cDNA clone IMAGE:2698040 3' similar to contains L1.2.L1 repetitive element:	xn59g05.x1 Scares_NHCeC_cervical_tumor Homo sapiens cDNA clone IMAGE:2898040 3' similar to	contains L1.t2 L1 repetitive element ;	tz8604.y1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291622 6	Gailus galus glyceraldehyde-3-phosphate dehydrogenase mRNA, complete cds	Вrugia malayi Y chromosome marker	Human pro-alpha1 type II collegen (COL2A1) gene exons 1-54, complete cds	2X75a03.s1 Soares ovary tumor NbHOT Homo saplens cDNA clone IMAGE:809548 3' similar to SW:DXA2 MOUSE P14885 PROBABLE DIPHENOL OXIDASE A2 COMPONENT:	602077774F1 NIH_MGC_62 Homo sepiens cDNA clane IMAGE:4252002 5	UHH-BI3-akf-f-08-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2734215 3'	COLLAGEN ALPHA 1(VII) CHAIN PRECURSOR (LONG-CHAIN COLLAGEN) (LC COLLAGEN)	UFHF-BN0-akc-h-04-0-UI.r1 NIH_MGC_50 Homo sapiens aDNA clone IMAGE:3078831 6'	yg51e04.s1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:35988 3'	PHOSPHATIDYLINOSITOL 3-KINASE 3 (PI3-KINASE) (PTDINS-3-KINASE) (PI3K)	on75g12.s1 Soares_NFL_T_GBC_S1 Homo saplens oDNA clone IMAGE:1662566 3'	yg51e04.s1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:35988 3'	RC3-BT0333-110100-012-f01 BT0333 Homo saplens cDNA	zl81a08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:510998 5'	RC6-UM0014-170400-023-G01 UM0014 Homo sapiens cDNA	2659a01.r1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:701736 5'	AV708305 ADC Homo sapiens cDNA clone ADCAKB08 5"	Raitus norvegicus type 1 astrocyte and olfactory-limbic associated protein AT1-46 mRNA, complete cds
Top Hit Database Source	SWISSPROT	SWISSPROT	SWISSPROT	Į.		_ LN	EST_HUMAN	EST HIMAN	Τ	EST_HUMAN	EST_HUMAN	N	TN TN		EST HUMAN	Т	EST HUMAN	Г	EST_HUMAN		SWISSPROT	EST_HUMAN	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	N T
Top Hit Acession No.	Q9R001	Q9R001	P48982	M61132.1	5.0E-03 D90723.1	L21710.1	T19586.1	5 0E-03 AW 170334 1		AW170334.1	BE048055.1	6.0E-03 AF047874.1	AF067253.1	L10347.1	5 0F-03 AA456597 4	5.0E-03 BF572332.1	5.0E-03 AW 449109.1	5.0E-03 Q02388	AW 500186.1	4.0E-03 R46482.1	4.0E-03 P54875	4.0E-03 AA939339.1	R46482.1	4.0E-03 AW749101.1	4.0E-03 AA099777.1	4.0E-03 AW794740.1	4.0E-03 AA284374.1	AV708305.1	U33472.1
Most Similar (Top) Hit BLAST E Value	5.0E-03	5.0E-03	5.0E-03 P48982	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5 0F-03		5.0E-03 A	5.0E-03	6.0E-03	5.0E-03	5.0E-03 L1	5.0F-03	5.0E-03	5.0E-03	5.0E-03				4.0E-03	4.0E-03			4.0E-03			4.0E-03 U
Expression Signal	0.58	0.56	2.58	9.8	1.42	96.0	3.45	3.97		3.97	3.58	6.15	10.47	1.63	19	4.87	2.34	1.24	1.74	2.33	0.67	2.63	2.03	4.11	2	1.93	1.25	0.95	1.15
ORF SEQ ID NO:	33701	33702	34147			36273		36140		36141							30864	L									26322		26749
Exan SEQ ID NO:	20804	20804	21240	L		22325	Į	23156		23156	_	24925	24207	24278	24301	1.	24442	24797	12845	L.	13034	13188					13871	14135	14263
Probe SEQ ID NO:	8390	8380	9880	8008	9219	9923	10506	10718		10718	11093	11896	12036	12147	12181	12210	12410	12434	244	335	460	620	006	934	1178	1200	1335	1604	1736

Table 4 Single Exon Probes Expressed in Lung

					,		
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1955	14473	26979	8.7	4.0E-03 A	AA099777.1	EST_HUMAN	z81a08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:610998 67
2165	14668		1.05	4.0E-03	4.0E-03 BE410556.1	EST_HUMAN	601304161F1 NIH_MGC_21 Hamp saplens cDNA clane IMAGE:3638510 5'
2176	14687	27211	1.08	4.0E-03	4.0E-03 AW 794740.1	EST_HUMAN	RC6-UM0014-170400-023-G01 UM0014 Hama saplens cDNA
. !	ļ						Homo saplens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase i (CAMKI), creatine transporter (CRTR),
2489	14990	27504	1.74	4.0E-03	U52111.2	L.	CDM protein (CDM), adrenoleukodystrophy protein >
				٠ .			Homo saplens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR).
2489	14990	27505	1.74	4.0E-03	U52111.2	N	CDM protein (CDM), adrenoleukodystrophy protein >
2639	15134		2.34	4.0E-03	AJ277365.1	Į.	Homo sapiens polyglutamine-containing C140RF4 gane
2639		27645		4.0E-03	AJ277365.1	LN	Homo saplens polyglutamine-containing C14ORF4 gene
2645				4.0E-03	AL163284.2	IN	Homo saplens chromosome 21 segment HS21C084
3184			1.11	4.0E-03	BE154134.1	EST_HUMAN	PM1-HT0340-151289-003-h08 HT0340 Homo saplens cDNA
3184	.			4.0E-03	BE154134.1	EST_HUMAN	PM1-HT0340-151299-003-h08 HT0340-Homo sapiens cDNA
3512		28476	0.78	4.0E-03	4.0E-03 AW188426.1	EST_HUMAN	x/98f04.x1 NCI_CGAP_Co18 Homo saplens cDNA clone IMAGE:2865279 3'
3512			0.78		1341	EST HUMAN	x98f04x1 NCI_CGAP_Co18 Homo caplens cDNA clone IMAGE:2665279 3'
3620				4.0E-03	Q13606 .	SWISSPROT	OLFACTORY RECEPTOR 511 (OLFACTORY RECEPTOR-LIKE PROTEIN OLF1)
3633			ŀ		AV646253.1	EST_HUMAN	AV640253 GLC Homo sapiens cDNA clone GLCALDO2 3'
3942	- 1	28887	0.67	4.0E-03	AF060868.1	NŢ	Mus musculus tumor susceptibility protein 101 (tsg101) gene, complete cds
4008	16542		2.02	4.0E-03	AJ011712.1	. FN	Homo sapiens TNNT1 gene, exons 1-11 (and joined CDS)
4654	17170	29552	1.15	4.0E-03	AI732754.1	EST HUMAN	ab18e08.x5 Stratagane lung (#937210) Home saplens cDNA clone IMAGE:841142.3' similar to contains Alurabetitive element:
5346	17845					EST_HUMAN	zi69b01.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sepiens cDNA done IMAGE:436009.3'
5417	17913		6.61	4.0E-03	AW816104.1	EST_HUMAN	MR3-ST0220-110100-026-d05 ST0220 Hamo saplens cDNA
5464	ľ	30307	2.2	4.0E-03	AL163284.2	۲	Homo sapiens chromosome 21 segment HS21C084
5527	18117	30474	•	4.0E-03	AF005859.1	NT	Drosophila melanogaster anon2D7 (anon2D7) mRNA, complete cds
5655		30638	,	4.0E-03	AF169825.1	ΝŢ	Rattus norvegicus beta-catenin binding protein mRNA, complete cds
6077		31343	2.96		P04196	SWISSPROT	(HPRG)
6081					! Щ.	SWISSPROT	MAJOR SURFACE LABELED TROPHOZOITE ANTIGEN PRECURSOR
6171		31440			4	EST_HUMAN	DKFZp76111014_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp76111014 5'
6392			. 4.05		U22180.1	TN	Rattus norvegicus opsin gene, complete cds
6554	_				AW590572.1	EST_HUMAN	hg46c07.x1 NCI_CGAP_GC8 Homo septens cDNA clone IMAGE:29486523'
6837					BE548453.1	EST_HUMAN	601076015F1 NIH_MGC_12 Homo saplens cDNA clone IMAGE:3461954 5'
7038	19573	32364	1.26	4.0E-03	AA813222.1	EST_HUMAN	aj32/11.s1 Soares_testis_NHT Homo sapiens cDNA clone 1392045 3'

Table 4
Single Exon Probes Expressed in Lung

8	Top Hit Descriptor	Lycopersicon esculentum knotted 3 protein (TKn3) mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C078	Homo sapiens chromosome 21 segment HS21C078	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2)	637g12x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:22718143'	7e31b02.x1 NCI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE:3284043 3'	H.saplens hcglX gene	Dictyostelium discoldeum AX4 development protein DG1122 (DG1122) gene, partial cds	Homo sapiens KIAA0345 gana product (KIAA0345), mRNA	1949b11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2090013 3' similer to contains Alu repetitive element:	Homo sapiens chromosome 21 segment HS210009	Homo sapiens chromosome 21 segment HS21C078	Homo sapiens splicing factor, arginine/serine-rich 8 (suppressor-of-white-apricot, Drosophila homolog)	(SFRS8) mRNA	Homo sapiens chromosome 21 segment HS21C006	PM4-BN0138-180600-002-b08 BN0138 Homo saplens cDNA	601118164F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3028095 5'	UI-HF-BN0-alp-g-04-0-UI.r1 NIH_MGC_50 Hamo sapiens cDNA clone IMAGE:3080622 5'	7q74c09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to contains Alu repetitive element;contains element MER31 repetitive element;	hho2c07.x1 NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE:2953932 3' similar to contains element LTR5 repetitive element:	RC3-ST0281-240400-015-f03 ST0281 Homo saplens cDNA	Homo sepiens protein kinase CK2 catalytic subunit alpha gene, exon 1	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1	nc/3c05.s1 NCI_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:782984 similar to cortains Alu repetitive element;	S.cereale (cv. Halo) mRNA for triosephosphate isomerase	Mus musculus intestinal trefoil factor gene, partial cds	Mus musculus intestinal trefoil factor gene, partial cds	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds	Arabidopsis thaliana rpoMt gene
	Top Hit Database Source	NT	H	H	SWISSPROT	EST_HUMAN	L HUMAN	H	D L		EST HUMAN	T	H			H	EST_HUMAN P		EST_HUMAN U	FST HUMAN e	h EST HIMAN	T	Ī	F	EST HUMAN 6	Γ	Z L	Z V	TN P	
2	Top Hit Acession No.	176408.1	AL163278.2	AL163278.2	202817	N681483.1	3E670170.1	X92109.1	4F111944.1	7662067 NT	A1553983.1				4759101 NT	4L163206.2	BE815173.1	BE298290.1	4W504273.1	BF224125.1	AW6145981	Γ	Γ	AF011920.1	AA468110.1	232521.1	U46858.1	U46858.1	AF240786.1	
	Most Similar (Top) Hit BLAST E Value	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4 05-03	4.0E-03	4.0E-03		4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.05-03	4.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03
	Expression Signal	1.61	1.14	1.14	4.11	1.05	0.61	0.79	5.26	1.16	227	3.92	3.77		. 2.51	3.84	3.5	1.55	2.18	2.91	1 94	1.67	2.22	8.27	2.52	3.33	4.82	4.82	1.61	0.65
	ORF SEQ ID NO:	32695	32508	32507	32941	33221	33223		34005	34117	C877E		34619		36222	36345								25905			27219	27220	27328	
	Excan SEQ ID NO:	19872	19707	19707	20089	20354		20463	21101	21214		21701	21709	ı		68882	24942	24122	24164	24335				13456	14192	14700	14701	14701	14810	1
	Probe SEQ ID NO:	7169	7503	7503	7642	7916	7918	8031	8666	8780	9144	9269	9277		10805	10907	11862	11886	11967	12224	12273	12288	386	905	1661	2189	2190	2190	2303	2947

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9826	22041		16.0	3.0E-03	3.0E-03 D90901.1	NT	Synechocystis sp. PCC6803 complete genome, 3/27, 271600-402289
9840	22243		7.21	3.0E-03		SWISSPROT	CIRCUMSPOROZOITE PROTEIN PRECURSOR (CS)
9966	22368	35317	1.28	3.0E-03 P11369		SWISSPROT	RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
10030	22432		1.3	3.0E-03 P51989		SWISSPROT	HETEROGENEGUS NUCLEAR RIBONUCLEOPROTEIN AZ HOMOLOG 1 (HNRNP AZ(A))
10144	22545	35514	3.71	3.0E-03	3.0E-03 AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
10624	23068		1.73		1N 8205089	NT	Homo sapiens ATP/GTP-binding protein (HEAB), mRNA
10955	L.		2.88	·	3.0E-03 AB021736.1	TN	Oryza sativa gene for bZIP protein, complete cds
11196	22848	35821	2.54		3.0E-03 AF266285.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds
11235	23603	36647	3.16			TN	Homo sapiens trinucleotide repeat DNA binding protein p20-CGGBP (CGGBP) gens, complete cds
11235	23603	36848	3.16			TN	Homo sapiens trinucleotide repeat DNA binding protein p20-CGGBP (CGGBP) gens, complete cds
11619	24734		2.77		AI525058.1	EST_HUMAN	promma-5.E07.r bytumor Homo saplens cDNA 5'
11658	23973	36549	1.82		3.0E-03 AA993154.1	FST HUMAN	ot77b10.s1 Soares_total_febus_Nb2HF8_gw Homo septens oDNA done IMAGE:1622779 3' similar to contains L1.t3 WER28 repetitive element :
11717					3.0E-03 AB009668.1	N	Homo sapiens gene for CMP-N-acetylneuraminic acid hydroxylase, partial cds
11908	24132	30866	1.73		3.0E-03 AJ296282.1	TN	Rattus norvegicus mRNA for connextn36 (cx36 gene)
533	<u> </u>				2.0E-03 Q04652	SWISSPROT	RING CANAL PROTEIN (KELCH PROTEIN)
533					2.0E-03 Q04652	SWISSPROT	RING CANAL PROTEIN (KELCH PROTEIN)
808	-15294		13.28		170874.1	EST_HUMAN	yd15h03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108341 5
1395	13929				20783.1	IN	Human alpha-2-plasmin inhibitor gene, exons 6 and 7
1398	13932	26389			2.0E-03 AA661605.1	EST_HUMAN	nu86f01.s1 NCI_CGAP_Alv1 Homo saplens cDNA clone IMAGE:1217693
1408	13942	26398				۲	Homo sapiens tumor-related protein DRC2 (DRC2) gene, complete cds
1518	14050	26514	1.17	2.0E-03 P	P48509	SWISSPROT	PLATELET-ENDOTHELIAL TETRASPAN ANTIGEN 3 (PETA-3) (GP27) (MEMBRANE GLYCOPROTEIN SFA-1) (CD161 ANTIGEN)
1543	14074	26634	1.9	2.0E-03	4557836 NT	¥	Homo sapiens procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehters-Danlos syndrome type VI) (PLOD) mRNA
1543	14074	26535	1.9		4557836 NT	5	Homo sapiens procollagen-fysine, 2-oxoglutarate 5-dioxygeness (fysine hydroxylase, Ehlers-Dankos syndrome type VI) (PLOD) mRNA
1608	14139		5.72		P29400	SWISSPROT	COLLAGEN ALPHA 6(IV) CHAIN PRECURSOR
1938	14457	26960	0.9	2.0E-03	AF302691.1	NT	Mus musculus myelin expression factor-3-like protein gene, partial cds
2294	14801		5.91		7662325 NT	F	Homo sapiens KIAA0831 protein (KIAA0831), mRNA
2466						NT	8 Homo sapiens concentrative nucleoside transporter (CNT1) gene, exon 12
2466	1	27479				N	8 Homo sapiens concentrative nucleoside transporter (CNT1) gene, exon 12
2499	15000		9.26	2.0E-03	AW137782.1	EST_HUMAN	UI-H-BI1-adi-g-10-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717010 3'

Table 4 Single Exon Probes Expressed in Lung

WO 01/86003

Top Hit Database Source	EST_HUMAN	EST_HUMAN	ΝΤ)2.1 NT	SWISSPROT	178693.1 EST_HUMAN 4p13h01.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609361 5'	TN	TN		IN	N	7773.1 EST_HLIMAN yo45e02.s.1 Soares adult brain N2b4HB557 Homo sepiens cDNA clone IMAGE:180890 3'	003528.1 NT regions	NT	L	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	NT	SWISSPROT	SWISSPROT	6203 SWISSPROT CARBONIC ANHYDRASE-RELATED PROTEIN 2 PRECURSOR (CARP 2) (CA-RP II) (CA-XI)	16203 SWISSPROT CARBONIC ANHYDRASE-RELATED PROTEIN 2 PRECURSOR (CARP 2) (CA-RP II) (CA-XI)	F308187.1 EST_HUMAN 601887434F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4121408 5'		SWISSPROT	EST_HUMAN		
	EST_HUMAN	EST_HUMAN	NT)2.1 NT	SWISSPROT	EST_HUMAN					N	EST_HUMAN	NT	NT	L	EST_HUMAN		EST_HUMAN	EST_HUMAN	NT	SWISSPROT	SWISSPROT			37.1 EST_HUMAN		-			wu36h09.x1 Soares Dieckgreafe colon NHCD Homo sapiens cDNA clone IMAGE:2522177 3' similar to
Most Simitar (Top) Hit Top BLAST E Value	2.0E-03 AA450138.1	2.0E-03 BF56	2.0E-03 X87344.1	2.0E-03 AB040802.1	2.0E-03 P03374	2.0E-03 AA179693.1	2.0E-03 U68491.1	2.0E-03 L350	2.0E-03 AW 297380.1	2.0E-03 L425	2.0E-03 L425	2.0E-03 R87773.1	2.0E-03 AF003528.1	2.0E-03 AJ245167.1	2.0E-03 AF205067.1	2.0E-03 BF241410.1	2.0E-03 AB014593.1	2.0E-03 AW796111.1	2.0E-03 AW 796111.1	2.0E-03 U63	2.0E-03 P23477	2.0E-03 P23477	2.0E-03 Q95;	2.0E-03 Q95203	2.0E-03 BF30		2.0E-03 Q9UKP4	2.0E-03 AV709075.1	2.0E-03 X94451.1	
Expression Signal	6.14	16.0	2.57	2.83	2.48	76.0	14.17	1.25	1.12	1.94	1.94	1.68	0.91	0.59	3.72	1.53	1.36	0.61	19.0	2.02	3.73	3.73	2.33	2.33	8		2.47	0.65	1.72	
ORF SEQ ID NO:	28352	28358	28611	28907	29044					29486	. 29487		29991			30766	31164	31241	31242	31244	31710	31711		31973	31975	70000			32061	
•	各	15946	16206	16499	16658	16718	16781	16958	16976	17098	17098	17275	17630	17802	17938	18329	24595	18557	18557	18559	18978	18978	19224	19224	19226	, 000	19264	19265	19296	
SEQ ID NO:	3394 15940	156	3666 16	91	4130 16	٣	4236 1			4582 1				5302 1					5981		Ĺ		. 9299	. 9299	. 8299	-	\perp		6753	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11618	23949	37008	3.25	2.0E-03	2.0E-03 AF157516.2	. LN	Homo saplens SEL11 (SEL11.) gene, partial cds
11642	23965	37011	1.44	2.0E-03 AI	A1084325.1	EST_HUMAN	oyd3g06.s1 Soares_perathyroid_tumor_NbHPA Homo sepiens cDNA clone IMAGE:1668634.3' similar to TR:P97535 P97535 PS-PLA1 PRECURSOR.;
11667			8.69	2.0E-03	2.0E-03 AJ245167.1	Z	Camelus dromedarius cvhp19 gene for immunoglobulin heavy chain variable region
11891	24919		2.37	2.0E-03		EST_HUMAN	AV697966 GKC Homo septens cDNA done GKCGXD05 5'
11986		30946	1.44	2.0E-03	30508.1	NT	H. saplens M1 gene for muscartnic acetylcholine receptor
12112	24256		1.42			Z	Homo sapiens chromosome 21 segment HS21C003
12172	24784		13	·	A1975037 4	NAMIN TRE	ta66f02x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:2049051 3' similar to contains Alu repetitive element:
12253	1		1.35		2.0E-03 AL 163280.2	NT	Homo septens chromosome 21 segment HS21C080
12305	24386		1.22		2.0E-03 AF129756.1	Ę	Homo seplens MSH55 gene, partial ods; and CLIC1, DDAH, G6b, G6c, G5b, G6d, G6e, G6f, BAT5, G5b, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and LTA genes, complete ods
12494			.2.73		AV697968.1	EST HUMAN	AV697966 GKC Homo saplens cDNA clone GKCGXD05 5
456		25453			1.0E-03 H96471.1	EST_HUMAN	y98c08.r1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:232334 5'
852	13408	25853	2.08		1.0E-03 AI720263.1	EST_HUMAN	as70b08.x1 Barstead colon HPLRB7 Homo septens cDNA clone IMAGE:2334039 3' similar to TR:Q13825 Q13825 AU-BINDING PROTEINENOYL-COA HYDRATASE.;
852	13408	25854	2.08		1.0E-03 AI720263.1	EST HUMAN	as70b08.x1 Barstead colon HPLRB7 Homo septens cDNA clone IMAGE:2334039 3' similar to TR:Q13825 Q13825 AU-BINDING PROTEINENOYL-COA HYDRATASE.;
1122	L	L			AI865788.1	EST HUMAN	wk86a06.x1 NCI_CGAP_Pæn1 Hamo sapiens cDNA clone IMAGE:2422258 3'
1142	13686	26126	1.43	l	Al954572.1	EST_HUMAN	wx93e10x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:2551242 3'
1198	13737				A160261R 1	H TAH	wd86a01.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2338440 3' similar to contains Aturanettina element:
1962	1.				1.0E-03 P47808	SWISSPROT	HIGH MOLECULAR WEIGHT FORM OF MYOSIN I (HMWMI)
2065	14580		16.69		1.0E-03 AJ131016.1	N	Homo sapiens SCL gene locus
2484	14985		5.91		1.0E-03 P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
2835	15490	27911	1.29		AB033117.1	NT	Homo saplens mRNA for KIAA1291 protein, partial cds
3148	15701	28119	3.38		1.0E-03 P18915	SWISSPROT	CARBONIC ANHYDRASE VI PRECURSOR (CARBONATE DEHYDRATASE VI) (CA-VI) (SECRETED CARBONIC ANHYDRASE) (SALIVARY CARBONIC ANHYDRASE)
3148	15701		3.38		1.0E-03 P18915	SWISSPROT	CARBONIC ANHYDRASE VI PRECURSOR (CARBONATE DEHYDRATASE VI) (CA-VI) (SECRETED CARBONIC ANHYDRASE) (SALIVARY CARBONIC ANHYDRASE)
3265					ıΔı	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
3527					U68081.1	NT	Human MUC2 gene, promoter region
3527	16070	28492	0.68	1.0E-03	U68061.1	L L	Human MUC2 gene, promoter region

Table 4
Single Exon Probes Expressed In Lung

Top Hit Descriptor	Homo saplens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >	Human TRPM-2 protein gene, exons 1,2 and 3	601491081F1 NIH_MGC_69 Homo saplens cDNA clone IMAGE:3893276 5'	Homo sapiens partial streath-1 gene	প্রস্তাইত st Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:490768 3' similar to contains L1.ft L1 repetitive element :	Homo saplens exastoses-like protein 1 (EXTL1) gene, exons 2 through 11, and complete cds	V.carteri gene encoding volvoxopsin	Human class III alcohol dehydrogenase (ADH5) chi subunit mRNA, complete ods	Human class III alcohol dehydrogenase (ADH5) chi subunit mRNA, complete cds	Thermotoga neapolitana alpha-1,6-galactosidase (aglA) gene, complete cds	Thermotoga neapolitana alpha-1,6-galactosidase (aglA) gene, complete cds	BONE PROTEOGLYCAN II PRECURSOR (PG-S2) (DECORIN) (PG40) (DERMATAN SULFATE	PROTEOGLYCAN-II) (DSPG)	ov75f08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1643175 3' similar to contains MER39.b1 MER39 MER39 repetitive element ;	RC1-CT0279-181099-011-a09 CT0279 Homo saplens cDNA	RC1-CT0279-181099-011-e09 CT0279 Homo sapiens cDNA	QV3-HT0543-220300-130-a03 HT0543 Homo saplens cDNA	#73e12.x1 NC_CGAP_HSC3 Homo sepiens cDNA clone IMAGE:2246446 3' similer to TR:Q26195 Q26195 PVA1 GENE. :	AV759949 MDS Homo sepiens cDNA clone MDSDDF11 5'	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5	Rattus norvegicus transformation related protein 63 (Trp63), mRNA	te05h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2083013 3' similar to contains Alu repetitive element.	601468878F1 NIH_MGC_67 Homo sapiens cDNA clane IMAGE:3872035 5	Homo sapiens partial LMO1 gene for LIM domain only 1 protein, exon 1	APOLIPOPROTEIN A-IV PRECURSOR (APO-AIV)	Homo sepiens KVLQT1 gene	MITOCHONDRIAL RIBOSOMAL PROTEIN VAR1	Glycyrrhiza glabra GgbAS1 mRNA for beta-amyrin synthase, complete cds
Top Hit Database Source	LN LN	±N.	L HUMAN		EST HUMAN	Т			Ę				SWISSPROT	EST HUMAN	Г	Т	Г	EST HUMAN	Т	П		HUMAN	Τ	N	SWISSPROT	П	ISSPROT	П
Top Hit Acession No.	J52111.2	1.0E-03 M63376.1	1.0E-03 BE880044.1	1.0E-03 AJ261973.1	1.0E-03 AA122270.1	AF153980.1		M30471.1	M30471.1	AF011400.1	AF011400.1		001129	A1024350.1	AW362393.1		BE170859.1	Al583847.1	AV759949.1	144	9507208 NT	A134735E		AJ277681.1	P06727	AJ006345.1	P02381	AB037203.1
Most Similar (Top) Hit BLAST E Value	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03 A		1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	9.0E-04	9.0E-04	9.0E-04	9.0E-04	9.0E-04
Expression Signal	18.	3.71	0.83	4.64	1,15	1.48	1.83	3.42	3.42	1.95	1.95		0.88	0.95	2.71	2.71	4.93	, e.	3.35	3.69	1.47	3.69	6.45	3.02	2.2	99.0	1.17	1.59
ORF SEQ ID NO:	33475	33559	33619	33935	34072			34769	34770		35105		35253	35616						37006			30461				32153	
Exan SEQ ID NO:	20592	20669	20726	21032	21167	21245	L		21854	l	1		22309	22652	1_	L.	22979	ł	l			l	L	L	1	19132		Ш
Probe SEQ ID NO:	8170	8262	8311	8697	8733	8811	9303	9422	9422	9770	9770		9807	10251	10458	10458	10532	10605	10935	11595	12073	12102	12222	5449	5951	6581	6834	9794

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1516	14048		0.94	8.0E-04	.1	NT	X laevis mRNA for C4SR protein
4197	16722		5.41	8.0E-04 P08547		SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
4817	17329	60782	2.37	8.0E-04 U	29185.1	NT	Homo sapiens prion protein (PrP) gene, complete cds
5427	17922	30273	3.24	8.0E-04 U	29185.1	NT	Homo sapiens prion protein (PrP) gene, complete cds
11085	23491		2.87	8.0E-04			th85a08.x1 NCI_CGAP_Ut2 Homo saplens cDNA clone IMAGE:2176310 3
12437			1.43			EST_HUMAN	PM2-HT0353-130100-002-f10 HT0353 Homo saplens cDNA
2666	15159		3.8		7.0E-04 AL163210.2	NT	Homo saplens chromosome 21 segment HS21C010
3242	15793	28211	1.04	7.0E-04	4886170 NT	NT	Homo saplens chromosome X open reading frame 6 (CXORF6) mRNA
6404	18961	31696	0.76		7.0E-04 AA516212.1	EST HUMAN	ng65g12.s1 NCI_CGAP_Lip2 Homo sapiens cDNA clone IMAGE:939718 similar to contains L1.b3 L1 L1 respetitive element;
	L.					П	qq08h05xt Scares_NhHMPu_S1 Homo sepiens cDNA clone IMAGE:1931961 3' similar to gb:X57025_ma1
6622	19171	31924	0.42		7.0E-04 Al333675.1	EST HUMAN	INSULIN-LIKE GROWTH FACTOR IA PRECURSOR (HUMAN);contains Alu repetitive element;contains element MIR repetitive element :
6863	L			L		EST HUMAN	wg36f09.x1 Scares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMAGE:2387209 3'
7878	3 20122		0.83		L	IN	Homo sapiens mRNA for FLJ00035 protein, partial cds
11341	1 23705	36759	3.1		7.0E-04 Z40581.1	EST_HUMAN	HSC28A072 normalized Infant brain cDNA Homo sapiens cDNA clone ≎-28a07 3'
12151	24281		4.11	7.0E-04	1.1	EST_HUMAN	CM1-BT0614-110300-142-b12 BT0614 Homo saplens oDNA
12409	24441		3.84		R17336.1	EST_HUMAN	ygr13c06.r1 Soares Infant brain 1NIB Homo saplens cDNA clone IMAGE:32298 67
12441			4.66		6005855 NT	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
2644	15138		1.21	6.0E-04 B	BF341380.1	EST_HUMAN	602013339F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4149297 5'
3973	16508	28914			6.0E-04 A1862525.1	EST_HUMAN	wj15a11.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:24028763'
4106						NT	Homo sapiens epsilon-1 pseudogene (IGHEP1) gene, 5' flanking region
4105		ı			01315.1	NT	Homo sapiens epsilon-1 pseudogene (IGHEP1) gene, 5' flanking region
4201	16726	29114	3.69			누	Homo sapiens CCR8 chemokhe receptor (CMKBR8) gene, complete cds
4473		29375	0.94	6.0E-04 B	BE173435.1	EST_HUMAN	RC2-HT0560-190200-011-709 HT0560 Hamo sapiens cDNA
4473		29376		6.0E-04 B	BE173435.1	EST_HUMAN	RC2-HT0560-190200-011-109 HT0560 Homo saplens cDNA
8095		33402	0.47		6.0E-04 Q15034	SWISSPROT	HYPOTHETICAL PROTEIN KIAA0032
853,			3.98		P46408	SWISSPROT	GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE (FRUCTOSE TRANSPORTER)
10018					AL048507.2	EST_HUMAN	DKFZp586M2024_r1 586 (synonym: hute1) Homo sapiens cDNA clone DKFZp586M2024
10100			2.62		BE005850.1	EST_HUMAN	RC2-BN0120-250400-012-h11 BN0120 Hamo sepiens cDNA
11240					6.0E-04 AJ229042.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 2/3
11318		36732				EST_HUMAN	Ui-H-Bi0-aab-e-09-0-Ui.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE::2708825 31
11790					AW380519.1	EST_HUMAN	RC1-HT0269-261199-012-d08 HT0269 Homo sapiens cDNA
670	13235	25647	8.03	6.0E-04	010341	SWISSPROT	HYPOTHETICAL 29.3 KD PROTEIN (ORF92)

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1529	14061		2.03	6.0E-04	AW851844.1	EST_HUMAN	QV0-CT0225-021099-030-a07 CT0225 Homo saplens cDNA
3394	15937	28349	1.3	6.0E-04	AA548931.1	EST_HUMAN	nk27e11.s1 NCI_CGAP_Co11 Homo sepiens cDNA clone IMAGE:1014764 3' similar to contains Alu repetitive element,
3713	16253	28657	5.19	5.0E-04		SWISSPROT	ADAM-TS 7 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 7) (ADAMTS-7) (ADAM-TS7)
6322			8.36	5.0E-04	AW194050.1	EST_HUMAN	xm11d10.x1 NCI_CGAP_Ut4 Homo sepiens cDNA clone IMAGE:2683891 3' similar to gb:X58431_ma2 HOMEOBOX PROTEIN HOX-B9 (HUMAN);
5732	18314	30747	2.91	5.0E-04	AF248054.1	TN	Bos taurus micromolar calcium activated neutral protease 1 (CAPN1) gene, exons 11-20, and partial cds
0669	19527	32311		5.0E-04	AA156080.1	EST_HUMAN	zc33b08.r1 Stratagene colon (#937204) Homo sepiens cDNA clone IMAGE:588663 6'
7850	20290	33163	10.79	5.0E-04	M23604.1	TN	Gorilla gorilla invalucrin gene medium alkele, complete cds
8601	21036	33939	6.98	6.0E-04	AI188382.1	EST_HUMAN	qd13f06.x1 Soares_placents_8tc9weeks_ZNbHP8tc9W Homo saplens cDNA clone IMAGE:1723819 3' similar to gb:X51602_cds1 VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR 1 (HUMAN);contains Alu repetitive element;
8853	21287	34198	1.04	5.0E-04	AA814519.1	EST_HUMAN	obseco2.s1 NCI_CGAP_GCB1 Homo sepiens cDNA done IMAGE:1339226 3' similar to contains element MER22 repetitive element;
9534	21949	34872	1.68	5.0E-04	AA846545.1	EST HUMAN	4j56h03.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1394357 3'
9772	22175	35108	4.78	5.0E-04	AW270938.1	EST_HUMAN	xs06e02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2768836 3'
10757	23195		1.74	5.0E-04	AL048507.2	EST_HUMAN	DKFZp586M2024_r1 596 (synonym: hute1) Homo sapiens cDNA clone DKFZp586M2024
11435	18314	30747	14.01	5.0E-04	AF248054.1	NT	Bos taurus micromolar calcium activated neutral protease 1 (CAPN1) gene, exons 11-20, and partial cds
11722	24721		3.11	5.0E-04	AA568513.1	EST HUMAN	nf15h02,s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:913875
407	12983		1.04	4.0E-04	BF241482.1	EST_HUMAN	601876534F1 NIH_MGC_55 Homo saplens cDNA clone IMAGE:4104897 51
692	13255	25672	2.55	4.0E-04	U32748.1	NT	Haemophilus influenzae Rd section 63 of 163 of the complete genome
870	13426	25873	3.62	4.0E-04	AI720283.1	EST_HUMAN	as70b08.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR:Q13825 Q13825 AU-BINDING PROTEIN/ENOYL-COA HYDRATASE.;
870	13425	25874	3.62	4.0E-04	AI720263.1	EST HUMAN	as70b08.x1 Berstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR:Q13825 Q13825 AU-BINDING PROTEIN/ENOYL-COA HYDRATASE.;
1494	14026	26489	3.54	4.0E-04	AW753356.1	EST_HUMAN	RC3-CT0254-130100-023-f01 CT0254 Homo saplens cDNA
2008	14524		1.06	4.0E-04	AL163278.2	LN LN	Homo saplens chromosome 21 segment H921C078
2558	15057	7 27572	2.41	4.0E-04	096615	SWISSPROT	SERICIN-2 (SILK GUM PROTEIN 2)
3123	15676	3 28090	2.54	4.0E-04	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
3288	15837	28256	0.62	4.0E-04	AI720283.1	EST_HUMAN	as70b08.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR:Q13825 Q13825 AU-BINDING PROTEIN/ENOYL-COA HYDRATASE.;

					*}	20. 1	ביים ביים ביים ביים ביים ביים ביים ביים
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8113	20539	33418	0.64	3.0E-04	P23468	SWISSPROT	PROTEIN-TYROSINE PHOSPHATASE DELTA PRECURSOR (R.PTP-DELTA)
8820		34160	5:33	3.0E-04	P22607	SWISSPROT	FIBROBLAST GROWTH FACTOR RECEPTOR 3 PRECURSOR (FGFR-3)
5866	22386	35335	12.1	3.0E-04	3.0E-04 AA454055.1	EST_HUMAN	zx48d08.r1 Soares, testis, NHT Homo sepiens cDNA clone IMAGE:795471 5' similar to gb:M62762 VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT (HUMAN);
10348	22748	35715	3.52	3.0E-04	AA781201.1	EST HUMAN	aj24g05.s1 Soares, testis, NHT Homo saptens cDNA clone 1391288 3' similar to gb:M36072 609 RIBOSOMAL PROTEIN L7A (HUMAN);
44674	24042				4 4000004 4	TOTAL TOTAL	nc38e04.71 NCI_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:1010430 similar to contains L1.t2 L1
79007	L			3.05-04	ABO40001.1	ESI TOMAN	Learn and the Control of the Control
12510	24512		3.67	3.0E-04/	T	T HUMAN	nomo saprens minuta for nia AV 49 protein, paruai cos DKFZo5471.185 r 1 647 (svnonym: hfbr1) Homo sapiens cDNA clone DKFZo5471.185 5'
700	<u> </u>		,	L	. 00100		Homo sapiens SCG10 like-protein, helicase-like protein NHL, M68, and ADP-ribosylation factor related
180	13069			2.0E-04	AFZ17796.1	ROT LIMAN	protein 1 (AKFRF1) genes, complete cos Al 146707 HEMBR4 Lomo centone - DNA -lone LIEMBR4004262 91
830	L	25930		2.0E-04	M86524.1	L	Human dystraphin gene
930			7.59	2.0E-04	M86524.1	Ę	Human dystrophin gene
4240	19751		7 60	70 20 0	Alberta	1444 HT 140	qh98e11x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1856052 3' similar to contains
1217	ı		2.51	2.0E-04		NOW DE LO	Homo sanlens chromosome 21 segment HS21Cxc3
2491	14992	27507	0	20 C		<u>.</u>	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV29S1, TCRBV10S1P, TCRBV19S1P, TCRBV19S1P, TCRBV19S1P, TCRBV14S1, TCRBV14S1, TCRBV14S1, TCRBV14S1, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV3
2942	1_			2.0E-04	Al124529.1	EST HUMAN	am58c09.x1 Johnston frontal cortex Home sapiens cDNA clone IMAGE:1539760 3
3306	15854	28273	9.0	2.0E-04	5174736	N _T	Homo saplens tubulin, beta, 4 (TUBB4) mRNA
3413	15958		2.65	2.0E-04	BE082317.1	EST_HUMAN	QV2-BT0836-070500-194-b07 BT0636 Homo saplens cDNA
3924		28867	0.94	2.0E-04		EST_HUMAN	EST390550 MAGE resequences, MAGP Homo sapiens cDNA
4162			5.78	2.0E-04	U01029.1	NT	Phasedus vulgaris nitrate reductase (PVNR2) gene, complete cds
4712			1.4	2.0E-04	H96265.1	EST_HUMAN	yu01e11.r1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:232556 6
4712		29613	1.4	2.0E-04	H96265.1	EST_HUMAN	yu01e11.r1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:232556 5
4850			1.33	2.0E-04	U09226.1	NT	Gallus galius proteasome 28 kDa subunit homotog mRNA, complete cds
4946	_[0.88	2.0E-04	Z73018.1	IN	S.cerevisiae chromosome VII reading frame ORF YGR233c
6177				2.0E-04	AB037997.1	NT	Danto rerto hagoromo gene, exons 1 to 6, partial cds
5253	_ I	_ }		2.0E-04	AF057019.1	LN	Dictyostelium discoldeum interaptin (abpD) gene, complete cds
2808	18388	31049	1.16	2.0E-04	AV654352.1	EST_HUMAN	AV654352 GLC Homo sepiens cDNA clane GLCDUH10 3'

					()		פוויקור בערון ויסיס בערוי ביינים
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hii Descriptor
5821	18401	31065	2.04	2.0E-04 AI	AI690862.1	EST_HUMAN	tq03b11.x1 NCI_CGAP_Ut3 Homo saplens cDNA clone IMAGE:2207709 3'
6028	١.		0.81	2.0E-04	2.0E-04 AA296652.1	EST_HUMAN	EST11191 Uterus Homo sapiens cDNA 5' end similar to EST containing O family repeat
6245			1.01	2.0E-04	4758179 NT	NT	Hamo sapiens cell cycle progression 3 protein (DNJ3) mRNA
6999	l		0.85	2.0E-04	2.0E-04 AF140708.1	NT	Mus musculus G protein caupled receptor gene, complete cds, and unknown gene
7678	20124		2.61	2.0E-04	AU121712.1	EST_HUMAN	AU121712 MAMMA1 Homo sapiens cDNA clone MAMMA1000798 5
7789	١.		0.87	2.0E-04	2.0E-04 AW860963.1	EST_HUMAN	QV0-CT0387-180300-167-e10 CT0387 Home sapiens cDNA
8151	L		15.46	2.0E-04	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
8161	<u> </u>	33462		2.0E-04	P54296	SWISSPROT	MYOMESIN 2 (M-PROTEIN) (165 KD TITIN-ASSOCIATED PROTEIN) (165 KD CONNECTIN- ASSOCIATED PROTEIN)
8518	ŀ			l	2.0E-04 AL043272.2	EST_HUMAN	DKFZp434L2023_r1 434 (synanym: htes3) Homo sepiens cDNA done DKFZp434L2023 5'
8518	ı				2.0E-04 AL043272.2	EST_HUMAN	DKFZp434L2023_r1 434 (synonym: htes3) Homo seplens cDNA done DKFZp434L2023 5
8800	1				2.0E-04 U32444.2	ᅜ	Solanum Iycopersicum phytochrome F (PHYF) gene, partial cds
8600	ı	l		2.0E-04 U	U32444.2	FZ.	Solanum Iycopersicum phytochrome F (PHYF) gene, partial cds
							Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,
8839	21273	34182	1.27	2.0E-04	2.0E-04 AB026898.1	Ā	complete ods)
8839	21273	34183	1.27	2.0E-04	2.0E-04 AB026898.1	Ę	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORC IL3, URC IL4 genes, complete cds)
				100	A 000000	ţ	Home contone ERA3B common fracile region diadenosine trichosobate hydrolase (FHIT) gane. exon 5
908 1	⅃	1		Ì	Z.UE-04 ALOZO303. I	INI	Total Capacity and All Manager 11
10014				j	2.0E-04 BE149303.1	EST_HUMAN	RC3-HT0254-151099-011-505 H10254 Homo sapiens GUNA
10048			2.17		2.0E-04 AA405777.1	EST_HUMAN	Zu66c11.71 Scares testis NH1 Homo septens CUNA done IMAGE:742504 5
10627	23069	36054	4	2.0E-04	2.0E-04 AV730373.1	EST_HUMAN	AV730373 HTF Homo septens cDNA clone HTFAAA01 6
		ŀ					#01f11.x1 NCI_CGAP_Gas4 Homo saplens cDNA clone IMAGE:2140269 3' similar to contains Alu repetitive
11074	23499	36527	1.98	1	2.0E-04 A1440282.1	ESI HOMAN	element,
11178					2.0E-04 AW 136740.1	EST_HUMAN	UI-H-Bill-edm-0-04-0-01.81 NCI_CGAF_Subs name septents curve cigits investigated as
202	27007		4 97	מ מ	Locata	Fet LIMAN	yx26c09.s1 Soares melanocyte ZNbHM Homo sapiens cDNA clone IMAGE:262864 3' similar to contains I 1 tt 1 1 renetitive element :
ĝ	ı		ŀ		Lago-to: 1	LO LOWIN	
974	13527	7 25969	0.61	1.0E-04 P	P48725	SWISSPROT	PERICENTRIN
707	07007		900		4 05 04 044380	TORGENIA	RETROVIRUS-RELATED POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE; FNDONTICE FASET
	L	l			AM/043947 4	EST HIMAN	III.H.BIO.ash.e.09-0-Ul st NCI CGAP Sub1 Home septems cDNA clone IMAGE:2708825 3'
1141						EST HUMAN	UI-H-BI0-aab-e-09-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2708826 3'
1384	L					LN	Anguilla anguilla dopamine D1A1 receptor (d1A1) gene, complete cds
5	J				"		

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1637	14169	26638	2.6	1.0E-04 AI	AF148805.1	LΝ	Kaposi's sarcoma-associated herpesvirus ORF 68 gene, partial cds; and ORF 69, kaposin, v-FLIP, v-cyclin, latent nuclear antigen, ORF K14, v-GPCR, putative phosphoribosylformylglycinamidine synthase, and LAMP (LAMP) genes, complete cds
						-	Kaposi's sarcoma-associated herpesvirus ORF 68 gene, partial cds; and ORF 69, kaposin, v-FLIP, v-cyclin, latent nuclear antigen, ORF K14, v-GPCR, putative phosphoribosylformylglycinamidine synthase, and LAMP
1637	14169	26639	2.6			N	(LAMP) genes, complete cds
1833	14365				1.0E-04 AB048342.1	NT	Equus caballus DNA, chromosome 24q14, microsatellite TKY36
2574	15071	27588	2.02	1.0E-04	1.0E-04 AF195953.1	LIN	Homo saplens membrane-bound aminopaptidase P (XNPEP2) gene, complete cds
2574	15071		2.02		AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
2635			6.45	l	1.0E-04 BE218833.1	EST_HUMAN	hv45c08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3176386 31
2635	15130	27642	6.45		BE218833.1	EST_HUMAN	hw45c08.x1 NCI_CGAP_Lu24 Hamo sapiens cDNA clans IMAGE:3176368 3'
3248	15797	28215	86.0		Q62203	SWISSPROT	SPLICEOSOME ASSOCIATED PROTEIN 62 (SAP 62) (SPLICING FACTOR 3A SUBUNIT 2) (SF3A66)
					7 00007714	144741111 1100	101111.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2140269 3' similar to contains Alu repetitive
3734	16274	28604	0.88	1.0E-04 AI	M4402827	ESI HUMAN	Mouse sloha 1 tone-IV collagen mRNA
		1			AVIOATTON 4	COT LIMANI	AVEAT727 GL C Homo seriene CDNA clone GL CBRD04 3'
5233	1	30404			1.0E-04 AVG47727.1 ES	NE L'ACIMIAIN	Homo seniens KIAA0237 gene product (KIAA0237), mRNA
5233	1					Ę	Homo saplens KIAA0237 gene product (KIAA0237), mRNA
6147					P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
6221	18787			ļ	T19615.1	EST_HUMAN	753F Heart Homo sapiens cDNA clone 753
6221	18787	31494	0.63	1.0E-04	T19615.1	EST_HUMAN	753F Heart Homo sapiens cDNA clone 753
6779	19322	32088			1.0E-04 AA177111.1	EST_HUMAN	nc02e12.s1 NCI_CGAP_Pr3 Homo septens cDNA clone IMAGE:252
7230	19842	32680	79:0		1.0E-04 AA564561.1	EST_HUMAN	n 25a04.s1 NCI_CGAP_A41 Homo sapiens cDNA cione IMAGE:993486 3' similar to gb:M97252 KALLMANN SYNDROME PROTEIN PRECURSOR (HUMAN);contains Alu repetitive element;
7630	20078	32931	14.24		1.0E-04 AI251980.1	EST_HUMAN	qv57d10x1 NCI_CGAP_Ov32 Hamo saplens cDNA clone IMAGE:1985883 3'
8087			14.81		1.0E-04 AI251980.1	EST_HUMAN	qv87d10.x1 NCI_CGAP_Ov32 Homo saplens cDNA clone IMAGE:1985683 3'
8631		33975	1.11		1.0E-04 AA630463.1	EST_HUMAN	ab94g08.s1 Stratagene tung (#837210) Homo sapiens cDNA clone IMACE:854654 3'
9275	L	34928	2.8		1.0E-04 AI806220.1	EST_HUMAN	wf26e08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356742.3'
9582	22005	34932	1.5		88960	SWISSPROT	CYSTATIN-RELATED EPIDIDYMAL SPERMATOGENIC PROTEIN PRECURSOR (CYSTATIN 8)
9637	7 22052	ă.	1.2		77153	EST_HUMAN	yd72c08.r1 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:113774 5'
9798	3 22199	35135	1.6			10863876 NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
10162	'				1.0E-04 P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
10188	3 22589	35555			08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
11099			2.14	1.0E-04 N	128587.1	LΝ	Mouse alpha leukocyte interferon gene, complete cds

					,		
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11445	23805	36863	3.39	1.0E-04 Q03696	003696	SWISSPROT	NEURONAL-GLIAL CELL ADHESION MOLECULE PRECURSOR (NG-CAM)
11445	23805	36864	3.39	1.0E-04 Q03698	Q03696	SWISSPROT	NEURONAL-GLIAL CELL ADHESION MOLECULE PRECURSOR (NG-CAM)
11484	<u> </u>	36922	2.82	1.0E-04	1.0E-04 AA602845.1	EST_HUMAN	np20c02.s1 NCI_CGAP_Br3 Hamo sapiens cDNA clane IMAGE:1116868 3'
11494			2.82	1.0E-04	1.0E-04 AA602845.1		np20c02.s1 NCI_CGAP_Br3 Homo sapiens cDNA clone IMAGE:11168683'
11583	23923		1.31	1.0E-04	BE696769.1	EST_HUMAN	CM0-CT0404-130700-475-h03 CT0404 Homo sepiens cDNA
							7729a10.x1 NCI_CGAP_CLL1 Homo septems cDNA clane IMAGE:3296058 3' similar to contains L1.03.L1
11842	山		2.13		1.0E-04 BE676399.1	EST_HUMAN	repetitive element;
718			2.6		9.0E-05 AA718933.1	EST_HUMAN	ah45c11.s1 Soares_testis_NHT Homo septens cDNA clone 1292468 3
2408			7.14	9.0E-06	9.0E-05 AF156166.1	M	Homo saplens putative tumor suppressor mRNA
6263	Щ	31541	1.43	9.0E-05		SWISSPROT	PROLYL 4-HYDROXYLASE ALPHA-2 SUBUNIT PRECURSOR
8093	20620	33389	0.74	9.0E-05		EST_HUMAN	UI-H-Bi1-aer-d-05-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2720289 3'
8083	ı		0.74	Ŀ	9.0E-05 AW204958.1	EST_HUMAN	UI-H-BI1-aer-d-05-0-UI.s1 NCI_CGAP_Sub3 Homo saplens cDNA clone IMAGE:2720289 3'
9675	5 22022		2.73			NT	Homo sapiens gene for cholecystokinin type-A receptor, complete cits
229	7 22024	34953	3.3		AF120982.1	TN	Homo sapiens methyl-CpG binding protein 1 (MBD1) gene, ოთ 15b
							xa34g05.x1 NCI_CGAP_Br18 Homo sapiens cDNA clone IMAGE:2568728 3' similar to contains L1.t2.L1
10914	23348	36354	2.21	9.0E-05	9.0E-05 AW073078.1	EST_HUMAN	repatitive element;
11010	25437	38454	1 82		A 1287878 4	PST HIMAN	qv23f06.x1 NCI_CGAP_Lym8 Homo saplens cDNA clone IMAGE:1982435 3' similar to contains element MIR repetitive element :
2	_L				e.or00 Aigar 67 6. 1	NO.	WILLIAM STATE ALL MAN AND AND AND AND AND AND AND AND AND A
11363	3 18827	31541	4.39		Q60716	SWISSPROT	PROLYL 4-HYDROXYLASE ALPHA-2 SUBUNII PRECURSOR
							Homo seplens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G5b, G6d, G6e, G6f, BAT5, G5b,
11898	3 24805		5.71		9.0E-05 AF129756.1	K	CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and LTA genes, complete cds
844	13401	25842	1.78		8.0E-05 AJ251646.1	TN	Pisum sativum mRNA for beta-1,3 glucanase (gns2 gene)
887	13442		20.9	_	8.0E-05 AJ251846.1	NT	Pisum sativum mRNA for beta-1,3 glucanase (gns2 gene)
2904	15459		0.67		M83575.1	NT	Human platelet-derived growth factor A chain (PDGFA) gene, exons only
4517			0.83		8.0E-05 AW044605.1	EST_HUMAN	wy78a04.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:25548383'
10930	23362	36374	4.43		M69197.1	TN	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
							zs88h01.s1 NCI_CGAP_GCB1 Homo sepiens cDNA clone iMAGE:704593 3' similar to contains Alu
12555			3.35		8.0E-05 AA279333.1	EST HUMAN	repetitive element; contains element MSR1 repetitive element;
361			4.11		7.0E-05 AW847445.1	EST_HUMAN	RC3-CT0208-220899-011-E04 CT0208 Homo sapiens cDNA
361		25366	4.11		7.0E-05 AW847445.1	EST_HUMAN	RC3-CT0208-220999-011-E04 CT0208 Homo saplens cDNA
584					L49075.1	EST_HUMAN	HUM072014F Human fovea cDNA Homo sapiens cDNA clone EST HFD072014
684	13165	5 25560	1.16	7.0E-05 L	L49075.1	EST_HUMAN	HUM072014F Human fovea cDNA Homo sapiens cDNA clone EST HFD072014

Single Exon Propes Expressed in Lung	Top Hit Acession Top Hit Acession Source Source	DE-05 Q22949 SWISSPROT (GPAT)	AL163278.2	AB009080.1 NT	DE-05 A1432413.1 EST_HUMAN 1g73c09.x1 Soares_NHIMPu_S1 Homo septens cDNA clone IMAGE:2114418.3	AL163201.2	9845300 NT	AA505582.1 EST_HUMAN	T07095.1 EST_HUMAN	10835046 NT	0E-05 4885170 NT Homo sapiens chromosome X open reading frame 8 (CXORF6) mRNA	4885170 NT	A1655241 1	Z84506.1 NT	Z84506.1 NT	DE-05 AF053830.1 NT Homo saplens monocyte/neutrophil elestase inhibitor gene, complete cds	AV722942.1 EST_HUMAN	AV722942.1 EST_HUMAN	012860	0E-05/Q12860 SWISSPROT CONTACTIN PRECURSOR (@LYCOPROTEIN GP136)		AA897680.1 EST_HUMAN	BE064410.1 EST_HUMAN	BE064410.1 [EST_HUMAN	0E-05/AW896929.1 EST_HUMAN PM4-NN0050-310300-001-110 NN0050 Homo sepiens cDNA	P08607 SWISSPROT	P08607	T94149.1 EST HUMAN		R75639.1 EST_HUMAN	AA044015.1 EST_HUMAN	
aguio Cuigir	op Hit Acession No.						9845300 N			10835046 N	4885170 N	4885170 N				-															7	
	Most Similar (Top) Hit BLAST E Value	7.0E-05 Q	1~		7.0E-05 A	. ~ .	7.0E-05	1		7.0E-05	6.0E-05	6.0E-05	8 0F-05	TLA		140	6.0E-05	-			-	6.0E-05	6.0E-05 B	6.0E-05 B	6.0E-05/A	8.0E-05	14	6.0E-05		6.0E-05/h	6.0E-05 A	
	Expression Signal	0.8	9.29	6.22	8.54	1.23	0.77	1.49	3.09	9.49	66.0	0.93	12.23	1.3	1.3	3.08	1.55	1.55	3.53	3.53	1.45	0.83	1.03	1.03	2.69	1.4	4.4	123		3.24	1.68	
	ORF SEQ ID NO:	26087	27674	28083		29301	29889		34989	-	26987	26988	27522	27638	27639	25677	30056	30057	31477	31478		32560			34307	34903	34904	35057		35858	36688	
	Exan SEQ (D NO:	13627	15164	15670	16237)	17515		22060	23371	14479	14479	15010	15126			17695		18773				21129	21129	21396	21977	21977	22131	•	1	23637	
	Probe SEQ ID NO:	1081	2671	3117	3697	4384	2002	9828	9733	10939	1981	1981	2509	2631	2631	2772	5191	5191	6207	6207	6741	7343	8694	8694	8962	9514	9514	8026		OSS D	11271	

Probe SEQ ID S NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Aœssion No.	Top Hit Database Source	Top Hit Descriptor
3993	16527	28931	3.55	5.0E-05	AJ251884.1		Homo sapiens partial SLC22A3 gene for extraneuronal monoamine transporter (EMT), exon 1
5787	18368	30830	13.78	5.0E-05	X58855.1		Human MLC1emb gene for embryonic myosin alkaline light chain, 3'UTR
6295	18857	31578	4.22	6.0E-05		EST_HUMAN	AV653544 GLC Homo sapiens cDNA clone GLCDMA06 3'
6482	18037	31777	1:1	6.0E-05	AF260225.1	NT	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced
7977	20239		1.17	5.0E-05	AB037964.1	TN	Mus musculus gene for calretinin, exon 1
11895	24300		3.58	5.0E-05	P49193	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
12180	24300		6.77	50-∃0.9	P49193	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
2765	12838		3.72	4.0E-05	U12821.1	NT	Human renin (REN) gene, 6' flanking region
4518	17036	29413	0.8	4.0E-05	P49193	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
4518	17036	29414	8.0	4.0E-05	P49193	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
5121	17628	29990	0.95	4.0E-05	AF212313.1	١	Drosophila melanogaster senseless protein (sens) gene, complete cds
7351	19762	32569	69.0		U01947.1	F	Macaca mulatta haptoglobin (HP) gene, 5' region
							nf46d01,s1 NCI_CGAP_Pr2 Homo sepiens cDNA clone IMAGE:916801 similar to contains Alu repetitive
8491	20803		0.46			EST_HUMAN	Glement Contains LT. It I repetuve element;
8495	20907	33802	0.45			SWISSPROT	NADH-UBIQUINONE OXIDOREDOCTASE CHAIN 8
9710	22133		7.27	4.0E-05	AF202635.1	NT	Homo sepiens PP1200 mRNA, complete cds
				10,10	0,0000	140741111111111111111111111111111111111	hi36c07.x1 Soares_NPL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2974380 3' similar to contains
CCOL	ORAY		10.4			NAMOL 101	III
11766	24044	31022	1.54			Z	Hamo sepiens chromosome zi segment Hozhouoz
11853	24101		1.75	4.0E-06	AW117580.1	EST_HUMAN	xd83e09.x1 Sogres_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2605192 3
12584	24582		1.28	4.0E-05	AA417756.1	EST_HUMAN	zv01e11.s1 NC CGAP_GCB1 Homo sapiens cDNA done IMAGE:746252 3'
_							qh64c10.x1 Sogres_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849458 3' similar to
200	13262		0.7			EST_HUMAN	contains Alu repetitive etament, contains etement KER repetitive etement;
1085	13631		1.49	3.0E-05	AW273851.1	EST_HUMAN	xx24g03.x1 Sogres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE;2814100 3
1158	13701	26139	1.28	3.0E-05	BF037898.1	EST_HUMAN	801481463F1 NIH_MGC_66 Hamo sapiens cDNA clane IMAGE:3865142 5'
1158	13701		1.26	3.0E-05	BF037898.1	EST_HUMAN	601461463F1 NIH_MGC_66 Hamo saplens aDNA clone IMAGE:3865142 5'
2873	15168	27878		3.0E-05	Q62234	SWISSPROT	SKELEMIN
3255	15806		0.61	3.0E-05		EST HUMAN	qi91g11.x1 Soares_NhHMPu_S1 Homo sepiens cDNA clons IMAGE:1879748 3' similar to TR:O08632 CO8632 GLYCINE TYROSINE-RICH HAIR PROTEIN.;
4404	16928	29313			BE169211.1	EST HUMAN	PM1-HT0521-120200-001-e10 HT0521 Hamo saplens cDNA
4404	16926		7.59	3.0E-05	BE169211.1	EST HUMAN	PM1-HT0621-120200-001-e10 HT0521 Homo saplens cDNA
4500	17018		1.12		AA368679.1	EST_HUMAN	EST79998 Placenta I Homo sapiens cDNA similar to similar to p53-associated protein
4500	17018		1.12		AA368679.1	EST_HUMAN	EST79996 Placenta I Homo saplens cDNA similar to similar to p53-associated protein
4629	17145				AL163302.2	N	Homo sapiens chromosome 21 segment HS21C102

Probe SEQ ID NO:	Exam SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6272	18835	31550	0.97	2.0E-05	Q13183	SWISSPROT	RENAL SODIUM/DICARBOXYLATE COTRANSPORTER (NA(+)/DICARBOXYLATE COTRANSPORTER)
6471	19026	31763	0.78	2.0E-05	Al149272.1	EST_HUMAN	qc72a02.x1 Soares_placenta_8tc9weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:1715114.3' . similar to contains L1.3 L1 repetitive element;
6548	19100	31842	0.49	2.0E-05	P35085	SWISSPROT	CALCIUM-BINDING PROTEIN
6984	19521	32303	2.41	2.0E-05	AA714330.1	EST_HUMAN	nw06d12.81 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238519 3'
7309	19721	32523	1.84	2.0E-05	Y08926.1	IN	P.falciparum mRNA for AARP1 protein, partial
7322	19734	32537	1.2	2.0E-05	AI492960.1	EST_HUMAN	qz47b06.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2030003 3' similar to TR:O02711 002711 PRO-POL-DUTPASE POLYPROTEIN;
7332	19744		8.77	2.0E-05	Al991025.1	EST_HUMAN	wu35h07.x1 Soares_Dieckgraefe_colon_NHCD Homo saplens cDNA clone IMAGE:2522077.3'
7594	20043	32892	2.07	2.0E-05	AF224262.1	N	Heterodontus francisci Hox410 (Hox410), Hox49 (Hox49), Hox47 (Hox47), Hox46 (Hox46), Hox46 (Hox46), Hox46 (Hox44), Hox43 (Hox42), Hox42), and Hox41 (Hox41) genes, complete cds
7594	20043	32893	2.07	2.0E-05	AF224262.1	Į.	Heterodontus francisci HoxA10 (HoxA10), HoxA9 (HoxA9), HoxA7 (HoxA7), HoxA6 (HoxA6), HoxA5 (HoxA6), HoxA3 (HoxA3), HoxA2 (HoxA2), and HoxA1 (HoxA1) genes, complete ods
7840	20280		0.94	2.0E-05	AF128847.1	Ŋ	Homo sapiens indolethylamine N-methyltransferase (INMT) mRNA, INMT-2 allele, complete cds
8488	20900	33794	0.49	_		ĪN	Human germiine T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV29S1P, TCRBV19S1P, TCRBV16S1, TCRBV16S1, TCRBV18S1P, TCRBV34S1, TCRBV34S1, TCRBV3S1,
8551	20986	33885	1.61	2.0E-05	AI381040.1	EST_HUMAN	tg20h05.xf NCI_CGAP_CL11 Homo sapiens cDNA done IMAGE:2108369 3'
10140	22541	35509	1.03		BF055939.1	EST_HUMAN	7175g09.y1 NCI_CGAP_Bm20 Hamo sapiens cDNA clone IMAGE:3340576 5'
10425	22825	35786	261	2.0E-05	N41751.1	EST_HUMAN	w91a08.rt Soares_placenta_8to9weeks_ZNbHP8to9W Homo sapiens cDNA clone IMAGE:259970 6'
10425	22825	36797	2.61	2.0E-05	N41751.1	EST_HUMAN	yw91a08.r1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:259570 6'
10440	19744		3.45	2.0E-05	A1991025.1	EST_HUMAN	wu35h07.x1 Soares_Dieckgraefe_colon_NHCD Homo septens cDNA clone IMAGE:2522077 3'
11082	23507	36538	1.73	2.0E-05	A1493285.1	EST_HUMAN	fi30h09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132033 3' similar to TR:Q13538 Q13538 QFF2: FUNCTION UNKNOWN.;
11082			1.73	2.0E-05	AI493285.1	EST_HUMAN	ti30h09.x1 NCI_CGAP_Ges4 Homo saplens cDNA clone IMAGE:2132033 3' similar to TR:Q13538 Q13538 Q13538 Q13538 Q13538
11201	22863	35826	1.88	2.0E-05	BE175801.1	EST_HUMAN	RC5-HT0582-280300-012-E12 HT0582 Homo saplens cDNA

_ Table 4 Single Exon Probes Expressed in Lung

		-					
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslan No.	Top Hit Database Source	Top Hit Descriptor
9981	22383	35333	1.3	1.0E-05	AW291521.1	EST_HUMAN	UFH-BI2-agk-a-08-0-UI.s1 NCI_CGAP_Sub4 Homo septens cDNA clone IMAGE:2724398 3'
				l l	1		ha07c/10x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2873010 3' similar to contains L1.t2 L1
10166				1.0E-05	AW 456995.1	ESI_HUMAN	repenive definin,
12427	24879		1.22	1.0E-05	AL163303.2	ΝŢ	Homo saplens chromosome 21 segment HS21C103
2611		27625	15.15		Al583811.1	EST_HUMAN	#73e06x1 NCI_CGAP_HSC3 Homo septens cDNA done IMAGE:2246386 3'
3057	15611	28020	6.80	9.0E-06	A1218983.1	EST HUMAN	qg11b08.x1 Soares_placenta_8tc9weeks_2NbHP8tc9W Homo sepiens cDNA clone IMAGE:1769191 3'
				L	M61755.1	ì	Human alanine:glyoxylate aminotransferase (AGXT) gene, exons 1 and 2
5175		30040		90-30.6	AI984806.1	EST_HUMAN	wr85e08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2494502 3*
5231		30102		90E-08	Q03385	SWISSPROT	GUANINE NUCLEOTIDE DISSOCIATION STIMULATOR RALGDS FORM A (RALGEF)
6196		31465		9.0E-08	L23416.1	NT	Homo saplens differentiation antigen CD20 gene, exons 5, 6
7266	i			9.0E-06	BE065042.1	EST_HUMAN	RC1-BT0313-110500-017-e07 BT0313 Homo saplens cDNA
7925	20362	33229	1.02	90E-06	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
							ox20g01.x1 Soares_fetal_liver_splean_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1656912.3' similar to
8333	20748	33645	14.93	9.0E-08	A1034370.1	EST_HUMAN	contains Alu repetitive element;
8976	21409	34324	1.16	90-30:6	AL163209.2	NT	Homo saplens chromosome 21 segment HS21C009
							SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROTEIN) (DOWN-REGULATED
9329	21761	34667	3.72	9.0E-08	Q63769	SWISSPROT	BY V-SRC).
				L.			SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROTEIN) (DOWN-REGULATED
8328	21761	34668	3.72		ଦସେ 769	SWISSPROT	BY V-SRC)
9492	21923		4.7	9.0E-08	J U35114.1	IN	Human apolipoprotein E (APOE) gene, hepatic control region HCR-2
10717	23165	36139	3.12	90E-08	3 Q10364	SWISSPROT	PUTATIVE SERINE/THREONINE-PROTEIN KINASE C22E12.14C
2435	15337	27453	0.93	8.0E-06	3 AW362539.1	EST_HUMAN	RC3-CT0283-201199-011-h11 CT0283 Homo sepiens cDNA
							absoff0.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:854251 3' similar to contains
1004	13555		2.12	7.0E-06	AA66972	9.1 [EST_HUMAN	MERZ0.t1 MERZ0 repetitive element;
1467	14000	26465	3.59	7.0E-06		NT	Homo saplens KIAA0555 gene product (KIAA0555), mRNA
	i					1	qw/8g09.x/ NCI_CGAP_UB Hamo sapiens CDNA clane IMAGE:1991296 3' similar to cantains Alu repetitive
2825			8.13			ES HOMAN	משוותון
3551	16093	1	0.78		3 AA385542.1	EST_HUMAN	EST99205 Thyroid Homo sapiens cDNA 6' end similar to EST containing L1 repeat
5224	17726	30094	4 2.1	7.0E-08		NT	Mus musculus mRNA for MIW (ptwl), complete cds
2966	18542	li	5.74	7.0E-08	3 AW883141.1	EST_HUMAN	QV2-OT0062-250400-173-h01 OT0062 Homo sapiens cDNA
8098	18658	31351	1 0.91	7.0E-06	3 N98645.1	EST_HUMAN	ly65c07.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:278412.6
11622			3 2.18		3 BF216972.1	EST_HUMAN	601881522F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4093972 5
2871	15426	3 27845	5 1.33	6.0E-08	3 BE069189.1	EST HUMAN	QV3-BT0379-010300-105-d11 BT0379 Homo sepiens cDNA

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Single Exon Probes Expressed in Lung	Top Hit Descriptor	OVARIAN ABUNDANT MESSAGE PROTEIN (OAM PROTEIN)	0x08e02.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1655738 3' similar to contains MER8.t2 MER8 repetitive element;	Mus musculus E-cadherin binding protein E7 mRNA, complete cds	PROTEIN XE7	IL5-UM0070-110400-063-g02 UM0070 Homo sapiens cDNA	Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA1I), mRNA	Homo saplens chromosome 21 segment HS21C046	Human ABL gene, exon 1b and intron 1b, and putative M8604 Met protein (M8604 Met) gene, complete cds	CM2-HT0193-191099-022-f06 HT0193 Homo saplens cDNA	Homo sapiens gene for LECT2, complete cds	EST185496 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end	HA0877 Human fetal liver cDNA library Homo sapiens cDNA	ya48c03.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:53254 5' similar to contains Alu	repetitive element; contains L1 repetitive element;	xc69g12.x1 NCI_CGAP_Eso2 Homo saplens cDNA clone IMAGE:2589574 3' similar to contains Alu	repetitive element;contains element MER21 repetitive element;	tb33e09.x1 NCI_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2056168 3'	tb33e09.x1 NCI_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2056168 3'	QV2-NT0046-200600-250-h07 NT0048 Homo sapiens cDNA	Gallus gailus Dach2 protein (Dach2) mRNA, complete cds	IL3-CT0214-150200-074-B03 CT0214 Homo sapiens cDNA	w/94010.x1 NCI_CGAP_Bm25 Homo saplens cDNA clone IMAGE:2432562 3' similar to contains element	IMENZZ IEDEUNYE SIEMIEM,	Homo sapiens 1 cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region	Homo sapiens SPP2 gene for secreted phosphoprotein 24 precursor, exons 1-8	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0486	234b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432663 3' similar to contains L1.t1 L1 repetitive element :	234b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432663.3' similar to contains 1.11.1 reputitive element	Homo saplens PP1200 mRNA, complete cds
gle Exon Pro	Top Hit Database Source	SWISSPROT	EST_HUMAN	N.	SWISSPROT	EST_HUMAN	NT	TN	TN	EST_HUMAN	N	EST HUMAN	EST_HUMAN		EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	IN	EST_HUMAN	111111111111111111111111111111111111111	ESI_HUMAN	NT	NT	NT	EST HUMAN	FOT HIMAN	NT
Sin	Top Hit Acession No.	201456	6.0E-06 AI040099.1	6.0E-06 AF167441.1	202040	6.0E-06 AW801912.1	11418157 NT	5.0E-08 AL163246.2	J07561.1	5.0E-06 BE145171.1	5.0E-06 AB007546.1	6.0E-06 AA313620.1	5.0E-06 Al065045.1		R16267.1		4.0E-06 AW103354.1	4.0E-06 AI334928.1	4.0E-06 AI334928.1	4.0E-06 BF365612.1	4.0E-06 AF198349.1	4.0E-06 AW848295.1	7 0000001	4.UE-U0 A1660939.1	4.0E-06 AF009660.1	4.0E-06 AJ272265.1	4.0E-06 AB007955.1	3.0E-06 AA700562.1	3 0E-08 AA700582 1	3.0E-06 AF202635.1
	Most Similar (Top) Hit BLAST E Value	6.0E-06 Q01456	6.0E-08	6.0E-06	6.0E-06 Q02040	6.0E-08	6.0E-06	6.0E-08	5.0E-06 U07561.1	5.0E-06	6.0E-06	6.0E-08	5.0E-06		4.0E-06 R16267.1		4.0E-06	4.0E-08	4.0E-06	4.0E-06	4.0E-06	4.0E-06	20.7	4.05-00	4.0E-06	4.0E-06	4.0E-06			3.0E-06
	Expression Signal	2.08	2.34	1.48	1.22	1.82	2.2	2.2	2.12	0.62	1.21	4.01	4.53		6.92		13.15	6.72	5.72	1.7	0.85	1.28	,	5	3.81	1.13	4.62	2.2	66	1.72
	ORF SEQ ID NO:	27875	29705	30556	30651			31660	31963	32480	32980	35484	30870		25642		25872	26356				28844	03200	CG/R7			35824	27105		
	Exan SEQ ID NO:	15450	17326	18191	18250		24532	18925	19215	19683	20127	22519	24457		13231		13424				15579	16438			21646		22851	14587	1	11
-	Probe SEQ ID NO:	4807	4814	5603	5685	9935	12543	6367	2999	7479	7682	10118	12417		999		88	1366	1366	1502	3024	3903	2007	4000	9214	9841	11189	2072	2070	2169

Probe SEQ ID NO:	Exan SEQ ID NO: .	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2876	15431	27849	-	3.0E-08	AA868218.1	EST_HUMAN	ak48g11.s1 Soares_lestis_NHT Homo sepiens cDNA done IMAGE:1409252 3' similar to contains LTR1.t3 LTR1 repetitive element ;
3227	į .		2.31	3.0E-08		EST_HUMAN	wi22a05.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2425616 3' similar to TR:060734 060734
3785		28722	1	3.0E-06	BE047094.1	EST_HUMAN	hq64d12.x1 NCI_CGAP_HN13 Hamo saplens cDNA clane IMAGE:3124151 3'
3785	16322	28723	1	3.0E-06		EST_HUMAN	hq64d12x1 NCI_CGAP_HN13 Homo sapiens cDNA clone IMAGE:3124151 3'
4510	17028	29407	69'0	3.0E-06	T50268.1	EST HUMAN	yb78b10.r1 Strategene ovary (#937217) Homo saptens cDNA clone IMAGE:77276 6' similar to contains L1 repetitive element
	Ι						Homo sapiens gene for alpha-1-microglobulin-bikunin, exons 1-5 (encoding alpha-1-microglobulin, N-
4599	17115	29503	4.64	3.0E-06	X54816.1	뉟	(erminus.)
6474	19029			3.0E-08	AU159412.1	EST_HUMAN	AU159412 THYRO1 Homo capiens cDNA clone THYRO1001602 3'
7192		32731	0.42	3.0E-06	Z79478.1	NT	H.saplens flow-sorted chromosome 6 Taql fragment, SC6pA9E5
7192	19903	32732		3.0E-06	Z79478.1	ΤN	H.saplens flow-sorted chromosome 6 Taql fregment, SC6pA9E5
7677			1.94		P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
12077	L		6.64	3.0E-08	AW385282.1	EST_HUMAN	RC0-LT0001-261199-011-A03 LT0001 Hamo saplens cDNA
208	12811		2.84		P54366	SWISSPROT	HOMEOBOX PROTEIN GOOSECOID
1587	14119		5:33	2.0E-06	P21414	SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; ENDONUCLEASE]
							we04e03.x1 NCI_CGAP_KId11 Homo sepiens cDNA clone IMAGE:2297068 3' similar to contains MER30.b1
2272		27302			_	EST HUMAN	MER30 repetitive element;
2480	14981	27495	26'0		P06719	SWISSPROT	KNOB-ASSOCIATED HISTIDINE-RICH PROTEIN PRECURSOR (KAHRP)
3489	16042	. 28463	1.08	2.0E-09	AV667555.1	EST_HUMAN	AV657555 GLC Homo saptens cDNA clone GLCFD805 3'
3762	16301	28702	1.78		AA173518.1	EST_HUMAN	2002e05.r1 Stratagene ovarian cancer (#937219) Homo sapiens cDNA clone IMAGE:595232 5'
3770	16308	28709	9.0	2.0E-06	AW450215.1	EST_HUMAN	UI-H-BI3-aky-g-05-0-UI.s1 NCI_CGAP_Sub5 Homo septens oDNA clone IMAGE:2736176 3'
3777	16315	28715	1.61	2.0E-06	AB030896.1	Ψ	Mus muscultus gene for odorant receptor A18, complete cds
 							on34h01.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1558509 3' similar to contains Alu repetitive
6397	18954		0.89	2.0E-08	AA974932.1	EST_HUMAN	element;
6431	18987	31718	1.05	2.0E-06	AI539448.1	EST HUMAN	te51f05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2090241 3' similar to TR:Q13537 Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.;
6781	19324	32091	5.63	2.0E-06	AI819424.1	EST_HUMAN	wj90b04.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410063 3'
							nv59c06.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1234090 3' similar to contains L1.t3 L1
7964	20400	33270	0.67		_	EST_HUMAN	repetitive element;
8573	21008	1	0.89	2.0E-06	AW869223.1	EST_HUMAN	MR3-SN0087-120400-002-f02 SN0067 Homo sapiens cDNA
9240	21672		0.99	2.0E-06	AA772497.1	EST HUMAN	zh27c11.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:413300 3' similar to TR:P70467 P70467 REVERSE TRANSCRIPTASE;
	L					1	

							6
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptur
9252	21684	34595	1.9	2.0E-08	H62051.1	EST_HUMAN	yu37c04.r1 Soares ovary tumor NbHOT Homo saplens cDNA clone IMAGE:235974 5' similar to gb:X74929 KERATIN, TYPE II CYTOSKELETAL 8 (HUMAN);
9489	<u> </u>	34844	1.02	2.0E-06	AF003529.1	FN	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
9489	L		1.02		AF003529.1	NT	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
11974		30457	1.68	2.0E-08 F	P23249	SWISSPROT	PROTEIN MOV-10
12130	27670		2 63	2 05 08	1 68686838	NOW! IT LOS	hs9202.x1 NCI_CGAP_Kid13 Home sepiens cDNA clone IMAGE:3144699 3' similar to contains L1.t2 L1 penelithe element
3	1			20.7	-020202.	NG101 - 101	ORGANIC CATION/CARNITINE TRANSPORTER 2/SOLLITE CARRIER FAMILY 22 MEMBER 5) (HIGH-
35	12655	25045	1.37	1.0E-06	076082	SWISSPROT	AFFINITY SODIUM-DEPENDENT CARNITINE COTRANSPORTER)
676	13241	25856	1.88	1.0E-06	AF084364.1	ĮN.	Mus musculus D6MM5E protein (D6Mm5e) mRNA, complete ods
1480	14012	26477	1.81	1.0E-08		SWISSPROT	MEROZOITE SURFACE PROTEIN CMZ-8
1548		26541	1.08	1.0E-06	AL163278.2	N	Homo sapiens chromosome 21 segment HS210078
1601	14133		86'0	1.0E-06	P27625	SWISSPROT	DNA-DIRECTED RNA POLYMERASE III LARGEST SUBUNIT
1837	14456	26958	3.9	1.0E-06	AF184614.1	ΝΤ	Homo saplens p47-phox (NCF1) gene, complete cds
1937	14456		3.9		AF184614.1	INT	Homo saplens p47-phax (NCF1) gene, complete cds
2310			1.99			TN	Homo saplens chromosome 21 segment HS210085
2310	14817	27336	1.99	1.0E-06		NT	Homo saplens chromosome 21 segment HS21C085
4394	16913	29297	14.96	1.0E-06	U07561.1	Z	Human ABL gene, exon 1b and intron 1b, and putative M8504 Met protein (M8604 Met) gene, complete cds
5252	17753	30121	0.98	1.0E-06	AL163285.2	Z	Homo saplens chromosome 21 segment HS210085
5252	17753	30122	0.98	1.0E-06	AL163285.2	N	Homo seplens chromosome 21 segment HS21C085
5542				1.0E-06	1	EST_HUMAN	MR1-BT0800-030700-002-c06 BT0800 Homo saplens cDNA
5568						EST_HUMAN	MR3-FN0004-090600-001-604 FN0004 Homo sepiens cDNA
5568	18156	30520	1.08	1.0E-06	BE834518.1	EST_HUMAN	MR3-FN0004-090600-001-e04 FN0004 Homo sapiens cDNA
5735		30751	1.39	1.0E-06	060613	SWISSPROT	16 KDA SELENOPROTEIN PRECURSOR
6078			1.02	1.0E-06	BE063527.1	EST_HUMAN	CMO-BT0281-031199-087-h04 BT0281 Homo saplens cDNA
7276	19781	32591	6.92	1.0E-06		SWISSPROT	FIBRINOGEN ALPHA/ALPHA-E CHAIN PRECURSOR
8286			0.63	1.0E-06	Į	EST_HUMAN	IL5+HT0730-020500-074-g01 HT0730 Homo sapiens cDNA
8635			1.34		AA912623.1	EST_HUMAN	ol29c08.s1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1624878 3'
8830	21264	34170	1.32	1.0E-06	Al347010.1	EST_HUMAN	qp54e02.x1 NCI_CGAP_Co8 Homo saplens cDNA clone IMAGE:1926842 3'
-					_		gv23f08.x1 NCI_CGAP_Lym8 Homo sapiens cDNA clone IMAGE:1982435 3' similar to contains element
4999	-					EST HUMAN	Mik repetuve element;
CCCS	27.10	1				ESI HOMAN	Zabbeu 181 Sogres leur liver spieen Turt, Sindmo Sapiens Cuny Gane IMAGE, 2004/12.0
1796	- 1	32159	3.63	1.0E-06	U82668.1	N	Hamo sapiens snox gene, alternatively spliced products, complete cas

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SEQ ID NO:	Exca SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	l op Hit Database Sœurce	Top Hit Descriptor
9821	22224	35160	3.63	1.0E-06	1.0E-06 U82668.1	NT	Homo saplens shox gene, alternatively spliced products, complete cds
9853		35193	5.53	1.0E-06	1.0E-06 AA132611.1 E	EST_HUMAN	zo17e08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:587174 5
9890	22283		6.1	1.0E-06	1.0E-06 AA449257.1	EST. HUMAN	zx04411.s1 Sozres_total_fetus_Nb2HF8_9w Homo sepiens cDNA clone IMAGE:785493 3' similar to gb:D26129 RIBONUCLEASE PANCREATIC PRECURSOR (HUMAN);
10367	7 22767		1.74	1.0E-06	1.0E-06 AL163203.2	П	Homo saplens chromosome 21 segment HS21C003
11391	23753		3.74	1.0E-06	1.0E-06 AW890941.1	EST_HUMAN	RC4-NT0054-120500-012-b03 NT0054 Homo saplens oDNA
12011	24190	30948	4.23	1.0E-08 L7	78810.1		Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
12123	14456	26928	1.59	1.0E-08			Homo sapiens p47-phox (NCF1) gane, complete cds
12123	乚		1.59	1.05-06			Homo sapiens p47-phox (NCF1) gene, complete cds
375	12963	25382	1.82	9.0E-07		NT	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
375	12963		1.82	9.0E-07		N	Homo saplens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
11013	3 23440		4.83	9.0E-07		IN	Homo sapiens chromosome 21 segment HS210081
2386	14890		5.18		8.0E-07 AF049259.1		Homo saplens keratin 13 gene, complete cds
4822	17334	29713	4.09	8.0E-07 A	288596.1	HUMAN	q/82g07.x1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:1878876.31
4822	17334	29714	4.09	8.0E-07 AI	6.1	HUMAN	ql82g07.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1878876 3'
6176			8.6	8.0E-07 P21414		SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; ENDONUCLEASE]
8636			9.01	8.0E-07	8.0E-07 AF135416.1	NT	Homo sapiens UDP-glucuronosyltransferase gene, complete cds
11370	23732		5.27	8.0E-07	07770.1	EST_HUMAN	EST05860 Fetal brain, Stratagene (cat#036206) Homo sapiens cDNA clone HFBEN89
11603	L.		5.17	8.0E-07	8.0E-07 AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
5781	18362	30823	1.02	7.0E-07	E005700 NT	בל	Homo sepiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
5781	18362	30824	1.02	7.0E-07	6005700 NT	5	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
1868	14390	26882	1.99	6.0E-07	W855558.1	EST_HUMAN	CM3-CT0277-221099-024-e11 CT0277 Homo saplens cDNA
						•	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21- hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKIZW), RD, complement factor B
2395	14899	27418	1.34		,	NT	(Bf), and complement component C2 (C2) genes,>
3886	16521		1.92	6.0E-07	6.0E-07 P41479	SWISSPROT	HYPOTHETICAL 24.1 KD PROTEIN IN LEF4-P33 INTERGENIC REGION
9432	21884	34780	1.62			EST HUMAN	7g94f07.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3314149.3' similar to TR:O75920 O75920 4F5L. :
11871	L	L			W903222.1	EST HUMAN	CM4-NN1029-250300-121-h12 NN1029 Homo sapiens cDNA
왏			1.16		1831893.1	EST_HUMAN	wh64f10x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2385547 3'
1083	L		3.41			EST_HUMAN	EST03615 Supt cells Homo sapiens cDNA 5' end
2493	3 14994	1	6.93		N771303.1	EST_HUMAN	hn62f02x1 NCI_CGAP_Kid11 Hamo sapiens cDNA clone IMAGE:3032476 3'
2990				5.0E-07 AI	831893.1	EST HUMAN	wh64f10.x1 NCI_CGAP_Kid11 Hama sapiens cDNA clane IMAGE:2385547 31
4692	2 17208	29586	1.45		=149774.1	LN.	Home seplens NOD1 protein (NOD1) gene, exons 4 through 14 and complete cds

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Most Similar (Top) Hit Top Hit Acession BLAST E No. Source Value	3.0E-07 AV650201.1 EST_HUMAN	33.48 3.0E-07 A1797236.1 EST_HUMAN we86b12.x1 Sogres_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2347997 3'	yor4h09.s1 Stratagene lung (#837210) Homo sapiens cDNA clone IMAGE:80705 3' similar to strillar to general pictures (HUMAN) as 0.0E-07 T57850.1 EST_HUMAN gb:M62982 ARACHIDONATE 12-LIPOXYGENASE (HUMAN)	1.46 3.0E-07 T57850.1 EST_HUMAN gb:M82982 ARACHIDONATE 12-LIPOXYGENASE (HUMAN)	12.19 3.0E-07 O88807 SWISSPROT (PEPTIDYLARGININE DEIMINASE TYPE ALPHA)	3.0E-07 O42280 SWISSPROT	5.56 3.0E-07 AA815176.1 EST_HUMAN oc04c10.s1 NCI_CGAP_GCB1 Homo septiens cDNA clone IMAGE:1339890 3'	AW797168.1 EST_HUMAN	1.21 3.0E-07 Al591065.1 EST_HUMAN repetitive element, contains element;	Г	3.02 2.0E-07 AF282998.1 NT Homo sapiens TRF2-Interacting telomeric RAP1 protein (RAP1) mRNA, complete cds	7.09 2.0E-07 L77589.1 NT Homo sapiens DiGeorge syndrome critical region, telomenic end	7.09 2.0E-07 L77589.1 NT Homo sapiens DiGeorge syndrome critical region, telomento end	67.63 2.0E-07 [U38849.1 NT Fugu rubripes beta-cytoplasmic(vascular) actin gene, complete ods	1.98 2.0E-07 AF003530.1 NT Homo sapiens homeobox-protein CDX4 (CDX4) gene, complete cds and flanking repeat regions	1.99 2.0E-07 AF003530.1 NT Homo sapiens hameobox protein CDX4 (CDX4) gene, complete ods and flanking repeat regions	1.04 2.0E-07 P11369 SWISSPROT ENDONUGLEASE]	3.05 2.0E-07 AA223260.1 EST_HUMAN to gb:L31860 GLYCOPHORIN A PRECURSOR (HUMAN); contains Alu repetitive element;	5.49 2.0E-07 T83042.1 EST_HUMAN repetitive element;	1.15 2.0E-07 Q26768 SWISSPROT I/6 AUTOANTIGEN			2.0E-07 AF126348.1 NT Homo sapiens caveolin 1	0.66 2.0E-07 AW070995.1 EST_HUMAN CE00923 PROBABLE RABGAP DOMAINS;
	l d	J~	3.0E-07 T	3.0E-07 T	, –			1~	_	_		2.0E-07 L	_	드	-	1		,	<u> </u>	_		2.0E-07	2.0E-07	2.0E-07
Expression Signal	8.55	33.48	1.46	1.46	12.19	0.67	5.56	1.4	1.21	5.46	3.02		7.09	67.63	1.98	1.98	1.04					0.65		
ORF SEQ ID NO:		7 29708	30050	30051	3 31199			33318	m	2	0 25039		3 25180	8 25203	9, 25760	9 25761	0	0 25964	.1 25985			4	7 28635	30169
Exan SEQ ID NO:	17292	17327	17690	17690	18513	L	19609	20447	20618		12650	上		12788	13329	13329	13340	13520	13521	13734	14148	16164	16227	17804
Probe SEQ ID NO:	4778	4815	5186	5186	6935	6275	7075	8015	8197	12587	ဗ	158	158	186	769	769	781	867	896	1183	1617	3614	3687	6304

Top Hit Descriptor	xa05h07.x1 Soares_NFL_T_GBC_91 Homo septens cDNA clone IMAGE:2567485 3' stmilar to WP:C36H2.1 CE00923 PROBABLE RABGAP DOMAINS ;	RC3-NN0066-260400-021-g11 NN0066 Homo saplens cDNA	UI-H-BI3-ake-b-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2734008 3'	qg56d05.x1 Scares_testis_NHT Homo sepiens cDNA clone.IMAGE:1839177 3'	rm33a08.s1 NCI_CGAP_Lp2 Homo seplens cDNA clone IMAGE:1081938 striller to contains Alu repetitive element:	H.sapiens brca2 gene exon 9	AV728390 HTC Homo sepiens cDNA clone HTCAEG02 5'	zk27g09.s1 Scares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:471808 3'	Homo sapians chromosome 21 segment HS21C103	CM4-NN0003-280300-124-e06 NN0003 Homo sapiens cDNA	COMPLEMENT FACTOR B PRECURSOR (C3/C5 CONVERTASE) (PROPERDIN FACTOR B) (GLYCINE-RICH BETA GLYCOPROTEIN) (GBG) (PBF2)	COMPLEMENT FACTOR B PRECURSOR (C3/C5 CONVERTASE) (PROPERDIN FACTOR B) (GLYCINE-RICH BETA GLYCOPROTEIN) (CBO) (PBF2)	PM0-HT0339-260100-008-H07 HT0339 Homo sapiens cDNA	zn85h11.x5 Stratagene lung carchroma 837218 Homo septens cDNA clone IMAGE:565029 3' similar to contains THR.b2 THR repetitive element :	Homo saplens chromosome 21 segment HS21C082	RETROVIRUS-RELATED GAG POLYPROTEIN (VERSION 1)	Homo saplens RAB, member of RAS oncogene family-like 2A (RABL.2A), transcript variant 2, mRNA	GLYCOPROTEIN GPV	Homo sapiens chromosome 21 segment HS21C082	AV718662 GLC Homo saplens cDNA clone GLCFNF04 6	AV718662 GLC Homo saplens cDNA clone GLCFNF04 5	ZINC FINGER PROTEIN 189	Homo sepiens chromosome Xq28 metanoma antigen family A2a (MAGEA2A), metanoma antigen family A12 (MAGEA12), metanoma antigen family A2b (MAGEA2B), metanoma antigen family A3 (MAGEA3), caltractin	(CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and LI>	tz43d06.y1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291339 51	fz43d06.y1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291339 5'	yv43c07.s1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:245484 3'
Top Hit Database Source	EST_HUMAN CE	EST_HUMAN RO	EST_HUMAN U	EST_HUMAN 99	TEST HIMAN efe	Т	T HUMAN	Г		EST_HUMAN C	SWISSPROT (G	SWISSPROT (G			Г	ISSPROT		ISSPROT	Г	EST_HUMAN A	EST_HUMAN A	П		╗			EST_HUMAN w
Top Hit Acession No.	AW070995.1	2.0E-07 AW898066.1	2.0E-07 AW 448968.1	2.0E-07 AI208715.1	A A 572953 1	Q5159.1	4V729390.1	AA035198.1	AL163303.2	AW892507.1	P00751	P00751	BE153717.1		AL163282.2	P10263	7549818 NT	P09256	AL163282.2	AV718662.1	AV718662.1	075820					N55081.1
Most Similar (Top) Hit BLAST E Value	2.0E-07	2.0E-07	2.0E-07	2.0E-07	2.05-07		2.0E-07	2.0E-07	2.0E-07	2.0E-07	2.0E-07	2.05-07	2.0E-07	2.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07		1.0E-07	1.0E-07	1.0E-07	1.0E-07
Expression Signal	0.66	1.43	0.77	2.04	0 54	1.6	3.97	1.2	1,11	6.05	0.92	0.90	2.02	1.28	0.89	1.28	2.74		1.23								27.75
ORF SEQ ID NO:	30170	30550	32220	32362	42868			34469		35589	35734	35735				27308	27375				29224						33297
Exan SEQ ID NO:	17804	1]	i _	40578	1	ı	ı	ı	22622	l	22768		<u> </u>	Ι.	14788	14855	l_	13673	16835	16835					19775	
Probe SEQ ID NO:	5304	9229	6903	7029	7044	8204	8978	9132	9874	10221	10368	10368	11556	11646	1129	2280	2350	2785	3743	4311	4311	4791		6853	7270	7270	7996

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8178			0.64	1.0E-07	BF375909.1	EST_HUMAN	PM4-TN0024-030800-002-b05 TN0024 Homo saplens cDNA
8179	L	33488	0.64	1.0E-07	BF375909.1	EST_HUMAN	PM4-TN0024-030800-002-b05 TN0024 Homo saplens cDNA
8216		33524	2.19	1.0E-07		NT	Homo sapiens chromosome 21 segment HS21C081
8790	L	34129	3.42	1.0E-07		SWISSPROT	ENTEROPEPTIDASE (ENTEROKINASE)
8790			3.42	1.0E-07 P97435		SWISSPROT	ENTEROPEPTIDASE (ENTEROKINASE)
9311	21743	34651	2.68		1.0E-07 AA693576.1	EST_HUMAN	zi51e10.s1 Scares fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:434346 3'
9527	21942	34864	1.26		P57110	TORGSIWS	ADAM-TS 8 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 8) (ADAMTS-8) (ADAM-TS8) (METH-2)
8883	1_		278	_	1.0E-07 BF674524.1	EST HUMAN	802137714F1 NIH_MGC 83 Homo septens cDNA clone IMAGE:4274428 5'
2666			1.24		1.0E-07 AA386311.1	EST_HUMAN	EST185054 Brain IV Homo saplans cDNA
10352	乚		1.54			NT.	Homo saplens chromosome 21 segment HS21C082
							hr53c11.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:31322123' similar to TR:095722 095722
11933		306/3	3.87	1.0E-07	м.	ESI_HUMAN	15116311.1
12079			1.31			F	H.sapiens ALAD gene for porphobilinogen synthase
12265			2.88	1.0E-07	X51755.1	N	Human lembda-Immunoglobulin constant region complex (germline)
7738	20182	33043	1.01	80-30.6	A1539362.1	EST_HUMAN	te51b06,x1 Soares_NFL_T_GBC_S1 Homo septens cDNA clone IMAGE:2090195 3'
0966	22362	35312	1.96	80-30·6	AV734819.1	EST_HUMAN	AV734819 cdA Homo saplens cDNA clone cdABFB08 5'
11885	24121		3.89	9.0E-08	AJ251973.1	LN	Homo sapiens partial stearin-1 gene
929	15288		3.36		A1911352.1	EST_HUMAN	wd16b05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2328273 3'
1076	13622		1.57	8.0E-08	BE795469.1	EST_HUMAN	801590133F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3943976 6'
3529	16072		1.72	8.0E-08	BE795469.1	EST_HUMAN	801580133F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3943976 5'
9166	21598	34508	3.89	8.0E-08	AI752367.1	EST_HUMAN	cn15c02.x1 Normal Human Trabecular Bone Cells Horno sapiens cDNA clone NHTBC_cn15c02 random
0166	24.508	34500	2 80	80 HO 8	A1752367 1	EST HIMAN	confector of Normal Human Trabecular Bona Calla Homo sapiens cDNA clone NHTBC confector random
9782	L.					EST HUMAN	EST382776 MAGE reseguences, MAGK Homo sapiens cDNA
ន						SWISSPROT	ANKYRIN 1 (ERYTHROCYTE ANKYRIN)
1393						NT	Rat mRNA for ribosomal protein L31
3566					P15305	SWISSPROT	DYNEIN HEAVY CHAIN (DYHC)
3566		3 28523				SWISSPROT	DYNEIN HEAVY CHAIN (DYHC)
10598	3 23041		2.63	7.0E-08	AI535743.1	EST_HUMAN	cong3.P11.A5 conorm Homo saplens cDNA 3'
11407			3.43		_	NT	Rattus norvegicus Munc13-1 mRNA, complete cds
12388					P15305	SWISSPROT	DYNEIN HEAVY CHAIN (DYHC)
12388	3 16108	3 28523	3.32	7.0E-08	P16305	SWISSPROT	DYNEIN HEAVY CHAIN (DYHC)

Table 4 Single Exon Probes Expressed in Lung

Г		П							Т	Γ-	Т	$\overline{}$	Т	Т	Г	Т			Т	Г	·	1	Γ	Т	П		
G. 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Top Hit Descriptor	Homo sapiens SCL gene locus	Homo saplens chromosome 21 segment HS21C048	Homo caplens chromosome 21 segment HS210048	MR0-HT0166-191199-004-g09 HT0166 Homo sapiens cDNA	Homo sapiens KIAA1074 protein (KIAA1074), mRNA	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens chromosome X region from filamin (FLN) gene to glucose-6-phosphate dehydrogenase (G8PD) gene, complete cds's	Homo sapiens chromosome 21 segment HS21C103	nh03b09.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943183 similar to contains Alu repetitive	BESTACOL IN 3428 PRECIESOR (DESMOSOMAL O YCOPROTEIN II AND IIII (DESMOCOL IN-3)	COMPLEMENT C2 PRECURSOR (CS/C6 CONVERTASE)	QV0-CT0225-131099-034-a12 CT0225 Homo sapiens cDNA	Homo seplens shox gene, alternativaly spliced products, complete cds	URIDINE PHOSPHORYLASE (UDRPASE)	TRANSMEMBRANE PROTEASE, SERINE 2	Cricetulus griseus ribosomal transcription factor (UBF2) mRNA, complete cds	an22d10.x1 Gessler Wilms tumor Homo saplens cDNA clone IMAGE:1699411 3' similar to contains Alu repetitive element contains element MER22 repetitive element;	802248024F1 NIH_MGC_62 Homo saplens cDNA clone IMAGE:4333300 5'	602248024F1 NIH_MGC_62 Home saplens cDNA clone IMAGE:4333300 6'	2d85g03.r1 Soares fetal heart NbHH19W Homo saplens cDNA clone IMAGE:345556 6' similar to contains L1.t1 L1 repetitive element;	tb95a11.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:2082078 3' similær to contains MER18.b3 MER18 mepsitive element;	bb79a10./1 NIH_MGC_10 Home saplens cDNA clone IMAGE:3048570 5' similar to TR:09Z158 Q9Z158 SYNTAXIN 17:	qs76f11.y5 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMACE:1944045 5	Homo saplens chromosome 21 segment HS21C046	thschool Soures_NSF_F8_9W_OT_PA_P_S1 Homo sepiens cDNA done IMAGE:2126273 3' stralier to TR:Q13537 Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.;	AV731469 HTF Homo saplens cDNA clone HTFABH01 5'
	Top Hit Database Source	۲N	F	₹	EST_HUMAN	NT	M	Į.	F		CIALIDED T	SWISSPROT	EST HUMAN	N.	SWISSPROT	SWISSPROT	Z F	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	N _T	EST HUMAN	EST_HUMAN
	Top Hit Acession No.	AJ131016.1	AL163248.2	AL163248.2	BE144398.1	7662473 NT	AL163248.2	44140.1	AL163303.2		AA493851.1	CO2467 P06681	AW851878.1	U82668.1	P52624	016383	L42571.1	A1050027.1	BF692493.1	BF692493.1	W76159.1	Al343353.1	BE018348.1	AI792737.1	AL163246.2	Al436352.1	AV731469.1
	Most Similar (Top) Hit BLAST E Value	7.0E-08	6.0E-08	6.0E-08	6.0E-08	80-30s	6.0E-08	6.0E-08				5.0F-08			4.0E-08	4.0E-08	4.0E-08	4.0E-08		4.0E-08	4.0E-08	4.0E-08	3.0E-08	3.0E-08	3.0E-08	3.0E-08	
	Expression Signal	1.62	3.41	3,41	86.0	99.0	1.07	0.49	3.24	,	1.2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.45	2.64	1.08	0.85	1.2	3.67	4.64	4.64	2.66	2.41	2.02	4.65	1.58	2.75	0.47
	ORF SEQ ID NO:		25835	25836	27286	27988	29173	33806			2/180		30985			34554	34779	35681		36302			31131	30403	33359		
	Exan SEQ ID NO:	i_	13397	13397	14764	15677	16789	20910	1	<u> </u>		73938	_	L		21845	21863	22695	L	L.	24889		18457	18062	20484	20718	
	Probe SEQ ID NO:	12468	8	840	2258	3022	4264	8498	87		2143	11605	11809	3927	6743	9213	9431	10294	10873	10873	11610	12313	5878	7393	8052	8303	8452

							Air The control of th
Probe SEQ (D NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
11397	23768	36817	17.2	3.0E-08	AF111167.2	ΤN	Homo sapiens Jun dimertzatton protein gene, partial cds; cfos gene, complete cds; and unknown gene
11578	23919		18.8	3.0E-08	R18420.1	EST_HUMAN	yg02f04.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:30948 6' similar to contains Alu repetitive element;
. 212	12815		11.88	2.0E-08	AW302998.1	EST_HUMAN	xr87106.x1 NCI_CGAP_Lu26 Homo sapiens cDNA clone IMAGE:2767139 3'
782	12839		10.83	2.0E-08	AA425598.1		zw48f07.rf Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773317 5' similar to contains Alu repetitive element.contains element MER15 repetitive element;
514	13087		1.77	2.0E-08	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
679	L		13.26	2.0E-08	AW886438.1	EST_HUMAN	MR0-DT0080-240200-001-g08 OT0080 Hamo saplens cDNA
629			13.26	2.0E-08	AW886438.1	EST_HUMAN	MR0-OT0080-240200-001-g08 OT0080 Homo saplens cDNA
1016				2.0E-08	BE280477.1	EST_HUMAN	801165321F1 NIH_MGC_21 Hamo sapiens cDNA clone IMAGE:3138893 6
1374	13809	26365	2.09	2.0E-08	AL163247.2	NT	Homo saplens chromosome 21 segment HS21C047
1733			1.16	2.0E-08	BE734871.1	EST_HUMAN	601570463F1 NIH_MGC_21 Hamo sapiens cDNA clone IMAGE:3845189 5'
1826	14348		2.6	2.0E-08	AW270271.1	EST_HUMAN	xp43f11.x1 NCI_CGAP_HN11 Hamo sapiens cDNA clone IMAGE:2743149 3'
							nw64h01.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1251409 3' similar to contains L1.t3 L1
2319	_}	27341		2.0E-08		EST_HUMAN	rapetitiva element ;
2454				2.0E-08	K00216.1	NT	Sheep His-tRNA-GUG
3166	15719	28140	7.31	2.0E-08	042280	SWISSPROT	WNT-14 PROTEIN PRECURSOR
3166	15719	28141	7.31	2.0E-08	042280	SWISSPROT	WNT-14 PROTEIN PRECURSOR
3865	16401		1.67	2.0E-08	AW813620.1	EST_HUMAN	RC3-ST0197-161099-012-b03 ST0197 Homo septens cDNA
4092	16623	28012	9.0	2.0E-08	U82668.1	LΝ	Homo saplens shox gene, atternatively spliced products, complete cds
0077	40054		1			3 6 7 1 1 1 1	aa28c07.r1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE;814380 5' similar to contains L1.t2 L1
DOZ.	1		60.1	Z-01-70	AA408040.1	NAMOU CO	Interior of the Control of the Contr
5045	17555		3.47	2.0E-08	AW572881.1	FST HUMAN	Transfer No. Conf. Town Town Saprens Core digits invoced 1927 5 Sittling to contains And
5904	1	31164		20E-08		EST HUMAN	aB0h11.s1 Soares tests NHT Homo saplene cDNA clone 1377189 3'
	l						xd32cd4.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2595462 3' similar to contains MER18.b3
6118	_]					EST_HUMAN	MEK18 MEK18 repetitive element;
8638			1.14		P10272	SWISSPROT	POL POLYPROTEIN (CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; ENDONUCLEASE)
8711	21146	34049	1.52	2.0E-08	AA490121.1	EST_HUMAN	ab02g06.s1 Stratagene fetal retina 937202 Homo saplens cDNA clone IMAGE:8396743'
9397			1.02	2.0E-08	AU139978.1	EST_HUMAN	AU138978 PLACE1 Hamo sapiens cDNA clone PLACE1011719 5
1537		26528				SWISSPROT	POL POLYPROTEIN [CONTAINS: REVERSE TRANSORIPTASE; ENDONUCLEASE]
1978						EST_HUMAN	PM2-HT0130-150999-001-f12 HT0130 Hamo septens oDNA
2888	18445	31120	4.21	1.0E-08	AJ010770.1	NT	Homo sapiens hyperion gene, exons 1-50
	1						

Exon SEQ ID ID NO: CRF SEQ Expression Signal S	Chigae Lybrassea III Lang	Top Hit Database Top Hit Descriptor No. Source	4 SWISSPROT 52 KD RO PROTEIN (SJOGREN SYNDROME TYPE A ANTIGEN (SS-A))	104.1 EST_HUMAN 0435a05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1618736 3'	TRICARBOXYLATE TRANSPORT PROTEIN PRECURSOR (CITRATE TRANSPORT PROTEIN) (CTP) SWISSPROT (TRICARBOXYLATE CARRIER PROTEIN)	13.1 NT	본		279.2 NT Homo sepiens chromosome 21 segment HS21C079	Ę.	3008.1 EST_HUMAN L1 L1 repetitive element;	qu86c11.x1 NC_CGAP_Gas4 Homo saplens cDNA clone IMAGE:1978964 3' similar to contains L1.t3 L1 and less than the contains L1.t3 L1 and l1.t3 L1	q442e07x1 Soares_fetal_heart_NbHH19W Homo septens cDNA clone IMAGE:1732164 3' similar to EST_HUMAN contains MSR1.tf MSR1 repetitive element;	EST HUMAN	892.1 EST_HUMAN op74d08.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1582575 3'	12.1 NT Homo sepiens DNA for 3-ketoacyl-CoA thiolase beta-subunit of mitochondrial trifunctional protein, exon 2, 3	<u>N</u>	EST HUMAN		1850.1 EST_HUMAN 601111173F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3351834 6'	50.1 EST_HUMAN pe68a12.s1 Soares fetal liver spleen 1NFLS Homo septems cDNA clone IMAGE:121918.3'	nt17a11.s1 NCI_CGAP_HSC1 Homo septens cDNA clone IMAGE:1040924 similar to contains L1.t2 L1 F940.1 EST HUMAN repetitive element;	EST HUMAN	hg16f12.x1 NCI_CGAP_GC8 Home sepiens dDNA done IMAGE:2945807 3' similar to gb;X63743 FIBULIN-ISOT HUMAN 1, ISOFORM C PRECURSOR (HUMAN);	
Exon No: Signal Signal Signal No: Crop Hit Top Hit Acess No: Most Similar Top Hit Acess No: Most Similar No: No: Signal Signal No: Top Hit Top Hit Acess No: No: Vellue No: Vellue No: Vellue No: Vellue No:	,							HUMAN						П	Г					П	П		Г		ECT LIMANN WARFING OF SAMES NET T GBC SA Home semican DNA CANADE CONTRACTOR
Exan SEQ ID ORF SEQ Expression (To Signal No: 20740 Application (To Signal No: 20740 Most Signal No: 33636 Author (To Signal No: 20740 Aut	,	Top Hi				_	-	_	_	_	_			_	_				0E-09 L09709.1			0E-09 AA557940.1	0E-09 BE169421.1	_	R DE DO AW105784 1
Exan ORF SEQ ID ID ID ID ID ID ID ID ID ID ID ID ID				L		L								L									L		7 94
															3		2				3				3 30623
	į	Probe Exon SEQ ID SEQ ID NO: NO:	8325 20740		10008 22410	1_	_	12538 24709	4259 16784	4259 16784	11500 23858	6829 19370		ı	9333 21766	3501 16141		8685 21100	9521 21936	Ш	10463 22913	4041 16573		5217 1772	5636 18223

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9458	21889	34810	2.55	60-30'9	TN 01/28094	ΤN	Homo sapiens fibroblest growth factor receptor 3 (achondroplasia, thanatophoric dwarfism) (FGFR3) mRNA
10230	22631		3.41	60-30'8	AF200923.2	NT	Homo sapiens testis-specific kinase substrate (TSKS) gene, complete cds
1446	13978		3.2	5.0E-09	BE149264.1	EST_HUMAN	RC2-HT0252-120200-014-h10 HT0252 Homo saplens oDNA
6748	19292	32052	2.08	5.0E-09	AA359454.1	EST_HUMAN	EST88746 Fetal lung II Homo saplens cDNA 5' end
		:			-		Human garmline T-cell receptor beta chain Dopamine-beta-hydroxylass-ilke, TRY1, TRY2, TRY3, TCRBV2751P, TCRBV2251A2N1T, TCRBV851A1T, TCRBV781A1N2T, TCRBV591A1T, TCRBV1393, TCRBV657P, TCRBV782A1NT, TCRBV13SA2T, TCRBV13SA2T, TCRBV13SA2T, TCRBV7S2A1N4T.
7245	18018	30434	99.0	5.0E-09	U66059.1	Z	TCRBV13S9/13S>
10112		35478	2.83	60-30'S	AW799667.1	EST_HUMAN	PM2-UM0053-240300-005-c09 UM0063 Homo seplens cDNA
623	13111		1.81	4.0E-09	AL163282.2	N.	Homo saplens chromosome 21 segment HS21C082
686	13541		2.25	4.0E-09	AL163285.2	본	Homo saplens chromosome 21 segment HS21C085
1498						NT	Homo saplens hypothetical protein (AF038169), mRNA
2329	14836	27351	10.88	4.0E-09	AA350878.1	EST_HUMAN	EST58385 Infant brain Homo saplens cDNA 5' end similar to similar to heat shock protein, 90 kDa
							hu09e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA done IMAGE:3166120 3' similar to contains MER18.t3
7247	14755	27275	3.83	3.0E-09	BE222239.1	EST HUMAN	MEK18 repetitive element;
2488	44068	77,477	4	ממשט מ	DE222230.4	COT LIMAN	hu09e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA done IMAGE:3168120 3' similar to contains MER18.t3 MER38 constitue demont
200	ı.	l				TO COOLING	BENTENNANA
0867	73061	2/080	3.52	3.0E-09	F-Z3Z49	SWISSPROI	PROJEIN MOV-10
3299	15848	28266	1.01	3.0E-09		EST_HUMAN	hu09e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166120 3' similar to contains MER18.t3 MER18 repetitive element ;
3354			0.62	3.0E-09	AA442272.1	EST_HUMAN	zv54e04.r1 Soares_testis_NHT Homo saplens cDNA_clone IMAGE:757422 5'
4113			0.71	3.0E-09	X16674.1	LΝ	H.sapiens PADPRP-I gene for NAD(+) ADP-ribosyltransferase
4455	16975		4.08		AF175325.1	TN	Homo saplens eukaryotic Initiation factor 4AI (EIF4A1) gene, partial cds
4549	17066	29448	2.66	3.0E-09	QBY3R5	SWISSPROT	258.1 KDA PROTEIN C210RF5 (KIAA0933)
					_		hx80a02.x1 NCI_CGAP_Kid11 Hamo sepiens cDNA clone IMAGE:3194090 3' similar to TR:055091
8562						EST_HUMAN	O55091 IMPACT PROTEIN;
10210			1.84			ΝΤ	Homo sapiens chromosome 21 segment HS21C047
10798				3.0E-09		EST_HUMAN	7172c08.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMAGE:3527030 3'
10798		36218	2.71	3.05-09	BF109943.1	EST_HUMAN	7172c08.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMAGE:3627030 3'
835			0.75		X16874.1	NT	H.sapiens PADPRP-I gene for NAD(+) ADP-ribosytransferase
1291		26277	6.5			Ρ	Homo saplens chromosome 21 segment HS21C084
1660						EST_HUMAN	DKFZp781B1710_r1 781 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761B1710 5'
2221	14731	27251	1.68	2.0E-09	Q9Y3R6	SWISSPROT	258.1 KDA PROTEIN C210RF6 (KIAA0833)

Most Similar (Top) Hit Top Hit Acession Detablese BLAST E No. Source	3.97 2.0E-09 060241 SWISSPROT BRAIN-SPECIFIC ANGIOGENESIS INHIBITOR 2 PRECURSOR	0.61 2.0E-09 Ai004082.1 EST_HUIMAN c447b09.s1 Sogres_testis_INHT Homo sepiens cDNA clone IMAGE:1619897 3'	0.54 2.0E-09]AL163249.2 NT Homo sapiens chromosome 21 segment HS21C049	0.77 2.0E-09 AA357407.1 EST HUMAN EST66142 Kidney IX Homo sepiens cDNA 6' end similer to EST containing L1 repeat	100 AAAAAA	0.60 2.0E-09/A4401450.1 E31_DUMAN	2.0E-09 AI243732.1 EST HUMAN	2.0E-09 AW862126.1 EST HUMAN	1.16 2.0E-09]AJ271735.1 NT Homo sapiens Xq pseudoautosomal reglon; segment 1/2	2.31 2.0E-09 AL163248.2 NT Homo saplens chromosome 21 segment HS21C048	17.08 2.0E-09 X16674.1 NT H.sapiens PADPRP-I gene for NAD(+) ADP-ribosyltransferase		AA226070.1 EST_HUMAN	1.24 2.0E-09 AW301637.1 EST_HUMAN x69802.x1 NOI_CGAP_KId11 Homo sepiens cDNA clone IMAGE:2769234.3'	18.11 2.0E-09 AV767997.1 EST_HUMAN AV767997 BM Hamo sapiens cDNA clone BMFBFC12 6	2d79d03.s1 Soares_fetal_heart_NbHH19W Home saplens cDNA clone iMAGE:346853 3' similar to 0.7 1.0E-09 W78152.1 EST HUMAN gb:L02932 PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (HUMAN);	1.0E-09 5031624 NT	1.0E-09 5031624 NT	0.99 1.0E-09 A1356086.1 EST HUMAN MER12 repetitive element:		2.19 1.0E-09 U80017.1 NT protein (nalp) and survival motor neuron protein (smn) genes, complete cds	3.6 1.0E-09 M28699.1 NT Homo sapiens nucleder phosphoprotein B23 (NPM1) mRNA, complete cds	M28699.1 NT	0.8 1.0E-09 BE535440.1 EST_HUMAN 601058602F1 NIH_MGC_10 Homo saplens cDNA clone IMAGE:3445177 5'	HST HEIMAN	1 0E_00 A1 183283 2	1.0E-09 U07000.1	1.0E-09 P26694 SWISSPROT	1.0E-09 AV728645.1
Most Similar (Top) Hit BLAST E Value			L																								ŀ	L	
Expression Signal			0.5	0.7							17.0		2.3	1.2	18.1	0			6.0										
ORF SEQ ID NO:		31254				33337			Ĺ	36484							26119	L			27815	5 27853		2 27964		30802		1	
SEQ ID NO:	16485		19019	19877		20482		L	<u></u>		13392]	24966	24802	24543	13572		L		1	15399	15435		15552		L	L		Ш
Probe SEQ ID NO:	3950	5994	6463	7164	9501	/830 8030	8357	8436	9143	11036	12168		12242	12250	12558	1021	1136	1136	2408		2843	2880	2880	2897	4853	FTRE	6116	6457	8416

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEO ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E 'Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8924	21358	34273	0.85	1.0E-09 AI	688474.1	EST_HUMAN	wd39b05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330481 3' similar to contains MER25.t1 MER25 repetitive element;
10249	22650				1.0E-09 AL163283.2	NT	Homo saplens chromosame 21 segment HS21C083
12059	24901	30579	2.77		11418127 NT		Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
1341	13877	26330			9.0E-10 AW867740.1	EST_HUMAN	MR0-SN0040-050500-002-c07 SN0040 Homo sepiens cDNA
2791	15348	27770	5.72	9.0E-10 AI	AI870071.1	EST_HUMAN	we78h03.x1 Soares_Dieckgraefe_colon_NHCD Homo sepiens cDNA clone IMAGE:2347253 3' similar to SW:RL29_HUMAN P47914 60S RIBOSOMAL PROTEIN L29 ;contains element PTR5 repetitive element ;
7227	19839	32656	5.36	9.0E-10 A	AI452982.1	EST_HUMAN	the debool of Source INSE F8_9W_OT_PA_P_S1 Homo capiens cDNA clone IMAGE:2144537 3' striller to TR:000372 000372 PUTATIVE P160.;
151	12756		12.04	8.0E-10	63630.2	N L	Homo sepiens MCM4 (MCM4) and DNA-PKcs (PRKDC) genes, partial cds
3315	15863		1	8.0E-10	8.0E-10 BE080748.1	EST_HUMAN	QV1-BT0831-150200-071401 BT0631 Hamo sapiens cDNA
4217	16742	29130	4.42			EST_HUMAN	EST89564 Small Intestine I Homo saplens cDNA 5' end
10007	22409		2.93	8.0E-10	8.0E-10 U36308.2	TN	Homo sapiens lens major intrinsic protein (MIP) gene, complete cds
721		,	24.08		7706225 NT	TN	Homo sapiens TPA Inducible protein (LOC51586), mRNA
721	13282		24.08	7.0E-10	7706225 NT	TN	Hamo sapiens TPA inducible protein (LOC51586), mRNA
1633	14165	26636	2.1	7.0E-10	7.0E-10 Q13342	SWISSPROT	LYSP100 PROTEIN (LYMPHOID-RESTRICTED HOMOLOG OF SP100)
2472	14973		13.63	Ì	7.0E-10 P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
3050		28013	273		7.0E-10 X00856.1	LN	H.saplens DHFR gene, exon 3
6489					7.0E-10 AA345220.1	EST_HUMAN	EST51247 Gall bladder II Homo sapiens cDNA 5' end
7898		33205	-		7.0E-10 BF352883.1	EST_HUMAN	IL3-HT0619-110700-209-D12 HT0619 Homo sapiens cDNA
8187	7 20609		1.89		7.0E-10 P35084	SWISSPROT	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT
8614					7.0E-10 AF029701.2	NŢ	Homo sapiens presentiln-1 gane, exons 1 and 2
8614	21049	33955	2.03		7.0E-10 AF029701.2	IN	Homo capiens presentiin-1 gane, exons 1 and 2
936	13490	25933	6		6 0E-10 A.1400877 1	FZ.	Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 dene
2818			4.5		8 0E-10 AI424405.1	EST HUMAN	#02d07.x1 NCI CGAP Pr28 Homo sapiens cDNA clone IMAGE:20950213'
4789	L			L	6.0E-10 AW853719.1	EST HUMAN	RC3-CT0254-031099-012-g12 CT0254 Homo sapiens cDNA
2000	2,683,4	07970	,		0 OT 40 D00420	TOGGOOM	E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE 1) (ELAM-1) A ELIKOCYTE ENDOTHELIAL CELL ADHESION MOLECILLE 20.1 ECAM-2) (CDESE)
	1				20100	201100110	F-SELECTIN PRECISSOR (FNDOTHELIA) LEUKOCYTE ADHESION MOLECULE 1) (ELAMA)
9202	2 21634	4 34543	1.09		6.0E-10 P33730	SWISSPROT	(LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 2) (LECAM2) (CD62E)
11643	3 23966				8.0E-10 AW971923.1	EST_HUMAN	EST384012 MAGE resequences, MAGL Homo sapiens cDNA
782	Ш		4.8		5.0E-10 AL046804.1	EST_HUMAN	DKFZp434NZ19_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434NZ19 5'

	7	_	Τ-	_	$\overline{}$. .	1	_	Т	_	т-		_	_	T	1	40	и.	4	T-1/-	т-	т-	7 "	τ-	τ-	7-	T~-	The the
Top Hit Descriptor	HYPOTHETICAL GENE 48 PROTEIN	Homo saplens WRN (WRN) gene, complete cds	601822184F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042413 5'	HYPOTHETICAL 67.9 KD PROTEIN ZK688.8 IN CHROMOSOME III	HYPOTHETICAL 67.9 KD PROTEIN ZK688.8 IN CHROMOSOME III	qg09f09.x1 Soares, plecenta, 8to8weeks, 2NbHP8to9W Homo sapiens cDNA clone IMAGE:1759049 3' similar to contains LTR8.b2 LTR8 repetitive element;	nf84801.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:924648 3'	hg58g03.x1 NCI_CGAP_GC8 Homo saplens cDNA clone IMAGE.2949844 3' similar to contains Alu repetitive element;	Hamo sapiens chramosome 21 segment HS21C103	Homo sapiens mannosidase, beta A, Iysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds	aq63h11.x1 Stanley Frontal SN pool 2 Homo saplens cDNA clone IMAGE:2035653	yy3206.s1 Sogres melanocyte ZNbHM Homo saplens cDNA clone IMAGE:272863 3' similar to contains	Homo sabiens extracellular divoprotein lacritin precursor, dene, complete cds	yz11908.s1 Soares multiple sclerosis 2NbHMSP Homo sapiens cDNA clone IMAGE:282782.3'	RHOMBOID PROTEIN (VEINLET PROTEIN)	ba76d08.y1 NIH_MGC_20 Homo sapiens cDNA done IMAGE:2806319 5	AV743302 CB Hamo sapiens cDNA clone CBFBGD08 5'	AV743302 CB Homo sapiens cDNA clone CBFBGD08 5'	ys74b12.s1 Sogres retina N2b4HR Homo saplens cDNA clone IMAGE:220511 3's similar to contains MER29 repetitive element;	IL3-CT0219-160200-064-B06 CT0219 Hamo septens cDNA	IL3-CT0219-160200-064-B06 CT0219 Homo saplens cDNA	yc11e12.r1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:80398 5'	nz36g03.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1289908 3'	Wi81b08.x1 NCI_CGAP_Kid12 Homo saplens cDNA clone IMAGE:2389703 3'	II.3-HT0618-110500-136-E07 HT0618 Homo saplens cDNA	MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B)	MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B)	Homo sapiens basic transcription factor 2 p44 (bt/2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nalp) and survival motor neuron protein (smn) genes, complete cds
Top Hit Database Source	SWISSPROT	IN	EST_HUMAN	SWISSPROT	SWISSPROT	EST HUMAN	EST_HUMAN	EST HUMAN	N	IN	EST HUMAN	EST HIMAN	NT	EST HUMAN	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	SWISSPROT	TN
Top Hit Acession No.	Q01033	5.0E-10 AF181897.1	5.0E-10 BF105159.1	P34678	5.0E-10 P34678	AI221083.1	AA515260.1	N 594709.1	163303.2	4.0E-10 AF224669.1	4.0E-10 AI267342.1	N36113.1	AY005150.1	3.0E-10 N50109.1	P20350	3.0E-10 BE302970.1	3.0E-10 AV743302.1	AV743302.1	3.0E-10 H87208.1	3.0E-10 AW850731.1	3.0E-10 AW850731.1	3.0E-10 T65891.1	3.0E-10 AA769294.1	3.0E-10 AI765528.1	BE179517.1	P48988	2.0E-10 P48988	2.0E-10 U80017.1
Most Similar (Top) Hit BLAST E Value	5.0E-10 Q	5.0E-10	5.0E-10	6.0E-10	5.0E-10	4.0E-10 AI	4.0E-10 A	4.0E-10 A	4.0E-10 AI	4.0E-10	4.0E-10	3.0E-10 N3	3.0E-10	3.0E-10	3.0E-10 P20350	3.0E-10	3.0E-10	3.0E-10	3.0E-10	3.0E-10	3.0E-10	3.0E-10	3.0E-10	3.0E-10	3.0E-10	2.0E-10	2.0E-10	2.0E-10
Expression Signal	0.96	1.16	1.75	2.1	2.1	1.08	0.72	1.03	16.31	15.34	0.84	1,55	8.38	0.79	5.04	4.11	1.08	1.06	1.37	1.78	1.76	1.91	1.13	2.29	2.5	1.67	1.67	1.25
ORF SEQ ID NO:	28414				35070		26571		27506	32921	35704	26935		30722			33622	33623	34497	34721	34722			36911	30893	25047	25048	
Exon SEQ ID NO:	15995	17599	20228	22143	22143	12727	13167	14458	14991	20069	22736	13491	13917	18295	19070	19230	20730	20730	21589	21809	21809	22750	22828	23843	24412	12657	12657	14382
Probe SEQ ID NO:	3451	5089	7786	02/6	9720	115	298	1939	2490	7620	10336	938	1382	5712	6517	8682	8315	8315	9157	2288	2256	10350	10428	11485	12352	37	37	1860

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Top Hit Descriptor	602136840F1 NIH_MGC_83 Homo sepiens cDNA clone IMAGE:4273377 6	(HPRG)	Homo sepiens cycohrome P450 polypeptide 43 (CYP3A43) gene, pertal ods; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete ods; and cytochrome P450	polypeptide 5 (CYP3A5) gene, partial cds	601586208F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3940824 5'	7078d08.X1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3842303 3' similar to contains L1.t3 L1	repetitive element;	MR0-SN0038-290300-001-f01 SN0038 Homo sapiens cDNA	AV652123 GLC Homo sepiens cDNA done GLCCXA11 3'	Homo sepiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein	(L44L) and F1F3 (F1F3) genes, complete cas	CACCOLUZZO 1911 199-000-000 O 1 0220 Hours septicits control	QV2-TT0003-161199-013-g10 TT0003 Homo saplens cDNA	DKFZp434N1317_r1 434 (synonym: htes3) Homo sepiens cDNA clone DKFZp434N1317 5	DKFZp434N1317_1 434 (synonym: htes3) Homo sepiens cDNA clone DKFZp434N1317 5'	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete peres	1 regarded to	Homo sepiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSF9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR),	COM protein (COM), adrenoleukodystrophy protein >	Homo saplens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal	protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR),	CDM protein (CDM), adrendeukodystrophy protein >	Home sapiens PCCX1 mRNA for protein containing CXXC domain 1, complete cds	Human pregnancy-specific glycoprotein beta-1 (SP1) mRNA, last exon	nq81a05.s1 NCI_CGAP_Co9 Homo sapiens cDNA done IMAGE:11587043'	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protain gene (EDA), exon 2 and flanking repeat	regions	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	AU128584 NT2RP2 Hamo sapiens cDNA clone NT2RP2003751 5'	fB_6A4 Fetal brain library Homo saplens cDNA	qm04e10 x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1880874 3' similar to contains L1.t1 L1 repetitive element;
Top Hit Database Source	EST_HUMAN	SWISSPROT		뉟	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN		IN TOTAL	ESI TIOMAIN	EST_HUMAN	EST HUMAN	EST_HUMAN	<u> </u>			뉟			٦	LN	IN	EST_HUMAN		H H	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	BF675047.1	Q28640		AF280107.1	BE791082.1		BF434565.1	AW867767.1	AV652123.1		078027.1	~ ı	AW832912.1	AL041685.1	AL041685.1	AE243894 4	•		U62111.2			U52111.2	AB031069.1	M30629.1	AA631233.1		AF003528.1	P08548	AU128584.1	AW408990.1	
Most Similar (Top) Hit BLAST E Value	2.0E-10	2.0E-10	-	2.0E-10	2.0E-10		2.0E-10	1.0E-10	1.0E-10	1	1.01-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	4 0E 40	1.25-10		1.0E-10			1.0E-10	1.0E-10	1.0E-10			1.0E-10	1.0E-10	1.0E-10	1.0E-10	
Expression Signal	7.0	2.37		1.71	6.32		0.97	1.71	2.49		5.17	14.92	1.1	0.67	0.93	7 18	?!		5.87		,	6.87	2.2	2.48	0.44		0.45	0.67	69'0	1.15	1.04
ORF SEQ ID NO:				31865	33156				26624				28442						29059		•	29060	29069		32419		32749	L	33530	34148	
Exen SEQ ID NO:	15496	18657		19123	١.	l	21987	14068	14154			1		16066	16066	19E84	L		16673			16673	16680	16713	19623		19920	20411	20640	21241	$ldsymbol{ld}}}}}}$
Probe SEQ ID NO:	2941	6087		6572	7853		9553	1536	1623		2498	Z06Z	3478	3523	3851	40,0	1020	_	4145	L		4145	4152	4188	7089		7209	7975	8221	8807	9107

Probe Exan	_		Moet Similar			
SEO ID	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acesslan No.	Top Hit Database Source	Top Hit Descriptor
22579		4.46	1.0E-10	1.0E-10 AA081868.1	EST_HUMAN	zn23g06.r1 Strategene neuroepithelium NT2RAMI 937234 Homo sapiens cDNA clone IMAGE:548314 5'
23132	36113	4.26	1.0E-10	1.0E-10 AI038280.1	EST_HUMAN	oy85h03.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sepiens cDNA done IMAGE:1672661 3'
11585 18015	10	1.48	1.0E-10	1.0E-10 X87344.1	IN	H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 genes
l_	6	1.26	1.0E-10	AA397885.1	EST_HUMAN	zi86b10.r1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:729211 5'
275 12872	2 25289	1.14	9.0E-11	9.0E-11 BE145600.1	EST_HUMAN	1.2-HT0203-281089-016-c08 HT0203 Homo sepiens cDNA
2025 14541	1 27054	3.97	9.0E-11	9.0E-11 AL134395.1	EST_HUMAN	DKFZp547D225_r1 547 (synanym: hfbr1) Hamo sapiens cDNA clane DKFZp547D225 5'
_	1 27055	3.97	9.0E-11 AL1	AL134395.1	EST_HUMAN	DKFZp547D225_r1 547 (synonym: htbr1) Homo sapiens cDNA clone DKFZp547D225 5'
			9.0E-11	AL134395.1	EST_HUMAN	DKFZp547D225_r1 547 (synonym: hfbr1) Homo seplens cDNA clone DKFZp547D225 5'
3361 15907	7 28330		9.0E-11	9.0E-11 AL134395.1	EST_HUMAN	DKFZp547D225_r1 547 (synanym: hfbr1) Homa sepiens cDNA clone pKFZp547D225 5'
4537 17055			9.0E-11	9.0E-11 AA775985.1	EST_HUMAN	ae78f01.s1 Stratagene schlzo brain S11 Homo sapiens cDNA clone IMAGE:970297 3'
5056 17568	29934		9.0E-11	9.0E-11 AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
18419	6	3.76	9.0E-11	9.0E-11 BE079780.1	EST_HUMAN	RC6-BT0627-140200-011-E08 BT0827 Homo saplens cDNA
10152 22553	3 35520	1.18	9.0E-11	9.0E-11 AA324960.1	EST_HUMAN	EST27872 Cerebellum II Homo sapiens cDNA 5' end
10152 22553	3 35521	1.18	9.0E-11	AA324960.1	EST_HUMAN	EST27872 Cerebellum II Homo seplens cDNA 5' end
24174	30980	4.21	9.0E-11	9.0E-11 C16635.1	EST_HUMAN	C16635 Clontech human acrta polyA+ mRNA (#6572) Homo sapiens cDNA clone GEN-506B08 5'
15634	-	0.75		H10071 1	EST HIMAN	yn63ff1.st Soares adult brain N2b5HB56Y Homo sapiens ċDNA clone IMAGE:172173 3' similar to contains L. repeilitve element :
3978 16511	1 28918			8.0F-11 A1478617.1	EST HUMAN	m34c09.x1 NCI CGAP Kid11 Homo sapiens cDNA clone IMAGE:2161936 3'
1.				8.0E-11 N23712.1	EST HUMAN	yw48e08.s1 Weizmann Olfactory Epithelium Homo saplens cDNA done IMAGE:255298 3'
L.	L	2.53		8.0E-11 P47884	SWISSPROT	OLFACTORY RECEPTOR 1D4 (OLFACTORY RECEPTOR 17-30) (OR17-30)
				8.0E-11 AW674316.1	EST_HUMAN	ba60g04.x1 NIH_MGC_10 Homo saplens cDNA clone IMAGE:2900982 3'
						x/45h11.x1 NCI_CGAP_Bm50 Hamo sepiens cDNA clone IMAGE:2621061 3' similar to contains MER10.11
7040 19575	9	0.6		8.0E-11 AW166158.1	EST_HUMAN	MER10 repetitive element;
1477 14009		2.06	L.	7.0E-11 AA330642.1	EST_HUMAN	EST34392 Embryo, 6 week I Homo sapiens cDNA 5' end
2603 15099		2.07		7.0E-11 AW892611.1	EST_HUMAN	CM3-NN0004-100300-111-h06 NN0004 Homo saplens cDNA
		2.47	L	7.0E-11 AF163864.1	NT,	Homo sapiens SNCA isoform (SNCA) gene, complete ods, alternatively spilced
L						RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE;
10197 22598	8	1.52		7.0E-11 P11369	SWISSPROT	ENDONUCLEASE]
12135 24268	88	1.53		7.0E-11 AV701656.1	EST HUMAN	AV701658 ADB Homo sapiens cDNA clone ADBABC09 5'
429 13003		7.66		6.0E-11 M55270.1	NT	Human matrix Gla protein (MGP) gene, complete ods
429 13003		7.66		6.0E-11 M55270.1	N _T	Human matrix Gla protein (MGP) gene, complete cds

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3340	15887	28308	0.74	2.0E-11	Q10473	SWISSPROT	POLYPEPTIDE N'ACETYLGALACTOSAMINY, TRANSFERASE (PROTEIN-UDP ACETYLGALACTOSAMINY, TRANSFERASE) (UDP-GALNAC:POLYPEPTIDE, N- ACETYLGALACTOSAMINY, TRANSFERASE) (GALNAC-T1)
3473	16016		0.96	2.0E-11 AF	AF020503.1	Į	Homo sapiens FRA3R common franția ravion diadenocina Mohamatata ta de de 1171
4474	1 1		1.3		065537.1	EST HUMAN	RC3-BT0316-170200-014-e05 BT0316 Home septems cDNA
4846	J		19.0		l	Σ	Homo saplens chromosome 21 segment HS21C027
5016	17526		2.38		BE062558.1	EST_HUMAN	QV2-BT0258-261099-014-a01 BT0258 Hamo saplens cDNA
5138			1.09		2.0E-11 AA307331.1	EST HUMAN	EST178226 Colon carolnoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to alpha-2- mercolobulin
6448	19004	31736	1.09		2.0E-11 AW877806.1	EST HUMAN	QV2-PT0073-280300-109-h08 PT0073 Homo sapiens cDNA
6638	19186	31937	1.69		j	EST HUMAN	ne83h05.1 NCI_CGAP_GC1 Homo sapiens cDNA clone IMAGE:797433 5 similar to SW:PR16_YEAST P18938 PRE-MRNA SPLICING FACTOR RNA HEI ICASE DEDAG.
7639	20088	32940	0.72	2.0E-11		EST HUMAN	797c03.X1 NCI CGAP GC6 Homo septems cDNA clone IMAGE 344056653*
9493	. 21924		0.98	2.0E-11		Ę	Homo sablens chromosome 9 di milication of the T real recents hate best and the little of the little
10234		35598	5.26	2.0E-11 Q	Q13606	SWISSPROT	OLFACTORY RECEPTOR 614 (OLFACTORY RECEPTOR 1 IKE PROTEIN OLEV
10384		35752	1.14	2.0E-11	2.0E-11 AW885874.1	EST HUMAN	RC4-0T0072-170400-013-c11 OT0072 Home seniens cDNA
10384		35753	1.14	2.0E-11	2.0E-11 AW885874.1	EST HUMAN	RC4-010072-170400-013-011 010072 Home seniens cDNA
10920		36360	2.81	2.0E-11 AA	AA261956.1	EST HUMAN	23/1804/r1 NCI CGAP GCB1 Homo seniens cDNA clane IMAGE GREED F
11718			1.48	2.0E-11	2.0E-11 AA704195.1	EST HUMAN	477603.s1 Soares (etal liver splean 1NFLS S1 Homo sariens CDNA clone MAA GE-Agroop of
11751	24033		1.75	2.0E-11		EST HUMAN	RCO-CN0027-210100-011-01 CN0027 Home septems cDNA
11779	24053	31024	1.89	2.0E-11	<u>.</u>	EST_HUMAN	CM2-TN0140-070900-372-g01 TN0140 Homo saplens cDNA
8002	24222	1	1.84	2.0E-11	2.0E-11 D25217.2	IN	Homo sapiens mRNA for KIAA0027 protein, partial cds
12223	24334		1.85	2.0E-11	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
12577	24667		2.72	2.0E-11	11417966 NT	ĮŅ.	Homo saplens SEC14 (S. cerewisiae)-like 2 (SEC1412) mRNA
88	13257	25674	1.89	1.0E-11 AJ	AJ131016.1	NT	Homo saplens SCL gene locus
စ္ဆ	13365	25800	1.03	1.0E-11 AL	AL163209.2	N	Homo saplens chromosome 21 segment HS21C009
1248	13786	26232	4.05	1.0E-11 AL	AL163279.2	NT	Homo saplens chromosome 21 segment HS21C079
1527	14059		2.24	1.0E-11 AF	119914.1	ĮN	Homo saplens PRO3078 mRNA, complete cds
2045	14561	27073	2.2	1.0E-11		ΝŢ	Hamo sapiens homogentisate 1,2-dioxygenase gene, complete cds
3478	16019	28438	1.36	1.0E-11	1.0E-11 BE004315.1	EST_HUMAN	CM0-BN0105-170300-292-d12 BN0105 Homo septens cDNA
5467	- 1	30310	3.76	1.0E-11		T_HUMAN	AV746904 NPC Hamo saplens cDNA clane NPCBKB04 5
2222	181/3	30537	16.71	1.0E-11 AL	.163247.2	NT	Homo sapiens chromosome 21 segment HS21C047

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6117		31384	<i>U</i> .0	1.0E-11	BF222646.1	EST HUMAN	7p57d01.x1 NCI_CGAP_P28 Homo septems cDNA done IMAGE:3646845 3' similar to contains MER10.b3 MER10 repetitive element:
8415	ı		0.46	1.0E-11 A	AB042297.1	F	Homo sapiens PTS gene for 6-pyruvoy/tetrahydropterin synthase, complete cds
8779			3.3	1.0E-11	4885546 NT	F	Hamo saplens PHD finger protein 2 (PHF2) mRNA
8057			4.06	1.0E-11 R	13174.1	EST HUMAN	y173408.r1 Scares Infant brain 1NIB Homo sapiens cDNA clone IMAGE: 28188 51
9376			1.36		BF365119.1	EST_HUMAN	QV4-NN1149-250900-423-e03 NN1149 Homo sepiens cDNA
9376	- 1		1.38	1.0E-11 B	BF365119.1	EST HUMAN	QV4-NN1149-250900-423-a03 NN1149 Homo saplens cDNA
11057		36510	1.81	1.0E-11	BF680078.1	EST HUMAN	802154807F1 NIH MGC 83 Homo sapiens cDNA clone IMAGE:4295977 6
12312			1.21	1.0E-11	1.0E-11 Z20377.1	EST HUMAN	HSAAACADH P, Human foetal Brain Whole tissue Homo sablens cDNA
9894			1.22	9.0E-12	9.0E-12 AL163300.2	N L	Homo saplens chromosome 21 segment HS21C100
9894				9.0E-12	9.0E-12 AL163300.2	Z.	Homo sapiens chromosome 21 segment HS21C100
11488	23846	36914	1.73	9.0E-12	9.0E-12 AL046939.1	EST HUMAN	DKFZp588I0417_r1 588 (synchym: hute1) Hamo sapiens cDNA clane DKFZp588I0417 6'
11512	23870	36948	2.49	9.0E-12 A	AI858300.1	EST HUMÁN	WISBR05.X1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:2426960 3' similar to WP:F53F10.1 CE10980:
11512	23870	36949	2.49	9.0E-12.A	AI858300.1	EST HUMAN	wi38a06.x1 NCI_CGAP_Utt Homo sepiens cDNA clone IMAGE:2426960 3' similar to WP:F53F10.1 CE10990 :
2630			2.31	8.0E-12	8.0E-12 AA016131.1	EST HUMAN	2831c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.t3 L1 repetitive element :
9578	21999		16.0	8.0E-12	8.0E-12 BE074720.1	EST HUMAN	II.5-BT0578-130300-036-012 BT0578 Homo sentena cDNA
11834			5.24	8.0E-12	8.0E-12 AJ271736.1	N.	Homo sablens Xo oseudoautosomal racion: segment 2/2
4705		29604		7.0E-12	7.0E-12 Q05904	SWISSPROT	34 KD SPICULE MATRIX PROTEIN PRECURSOR (LSM34)
11107	23560	36601	5.38	7.0E-12	AA704735.1	EST HUMAN	423g01.s1 Soares fetal liver splean 1NFLS S1 Hame septens CDNA clane IMARGF-451152 31
3532	16075		0.68	6.0E-12	6.0E-12 AV730554.1	EST_HUMAN	AV730554 HTF Hamo saplens cDNA clone HTFAW F06 5
4370	16892	29273	96.8	6.0E-12	6.0E-12 AA732516.1	EST_HUMAN	nz8811.s1 NC_CGAP_GCB1 Homo sepiens cDNA clone IMAGE:1302673 3' similar to contains Atu repetitive element;
6725	19271	32030	. 0.58	6.0E-12	6.0E-12 AF020503.1	TN	Homo sanjens FRA3R common fracile region diademosine tribbonateds to declare (TUIT)
9338	21770	34673	1.08	6.0E-12	6.0E-12 AF003249.1	NT	Morone saxailis myosin heavy chain FM3A (FM3A) mRNA, complete cds
9673	22020		1.28		6.0E-12 AA847898.1	EST HUMAN	od10g11.s1 NCI_CGAP_GCB1 Hamo sapiens cDNA clone IMAGE:1367588 stmllar to contains MER29.t2 MER29 reputitive element
1068	13614		2.88	١	T06573.1	EST HUMAN	EST04462 Fetal brain. Stratagane (cat#836206) Homo sanlens cDNA clara LIEDDN93
3368					5.0E-12 BE047779.1	T	tx42bo5.y1 NCI CGAP Bm52 Homo sapiens cDNA done IMAGE: 2291217 5
3726		28670		5.0E-12			Homo saplens Xq pseudoautosomal region; segment 2/2
6325	18885	31614	6.41	5.0E-12	5.0E-12 AL163278.2	Ę	Homo saplens chromosome 21 segment HS21C078

Page 211 of 523 Table 4 Single Exon Probes Expressed in Lung

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Тф Hit Descriptor	Homo sepiens chromosome 21 segment HS21C078	EST386850 MAGE resequences, MAGN Homo sepiens cDNA	DKFZp434B1616_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B1615 3'	DKFZp434B1615_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B16153'	zi01g12.s1 Soares_fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:376718 3' similar to contains L1.t3 L1 repetitive element ;	Homo sapiens Xq pseudoautosomal region; segment 1/2	OLFACTORY RECEPTOR 1D2 (OLFACTORY RECEPTOR-LIKE PROTEIN HOMPO7E) (OLFACTORY RECEPTOR 17-4) (OR17-4)	Homo sapiens chromosome 21 segment HS21C103	2/74g11.s1 Scares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:4608763'	2/74g11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:460676 3'	bz8h05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2270746 3' similar to TR:Q13539 Q13539 MARINER TRANSPOSASE. ;	Human olfactory receptor 17-83 (OR17-83) and olfactory receptor 17-201 (OR17-201) genes, complete cds	nad21b03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3366077 3' similar to contains MER7.b2 MER7 repetitive element :	Homo sepiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene,	partial cds	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3	Homo sapiens Bruton's tyrosine kinase (BTK), alphe-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds	hd13d01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2909377.3' similar to TR:014517	U14517 SMRCF.;	ng13g01.X1 Soares_NFL_1_GBC_S1 Homo sepiens gDNA clane IMAGE;2566577 3 similier to 1 R:O14617 O14517 SMRP. ;	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes	RC1-HT0258-280300-017-c09 HT0256 Hcmo saplens cDNA	Homo sapiens PTS gene for 6-pyruvoy/tetrahydropterin synthase, complete ods	RC3-CT0255-031099-011-h02 CT0255 Homo saplens cDNA	Human prostate specific antigen gene, 5' flanking region	Human prostate specific antigen gene, 5' flanking region	Mus musculus keratin-associated protein 6.2 (Krtap6-2), mRNA
Top Hit Database Source	Z	EST_HUMAN	EST_HUMAN	EST_HUMAN		Т	SWISSPROT	Г		EST_HUMAN	EST_HUMAN	Į.	T HUMAN		NT	LN LN	LN.		ESI HOMAN	EST HUMAN	NT	EST_HUMAN	NT	EST_HUMAN	N	NT	TA.
Top Hit Acession No.	163278.2	V974760.1	040739.1	.040739.1		Γ		33.2		4.0E-12 AA700326.1	689984.1	6377.1	446140.1			4.0E-12 AJ228043.1	8027.1		3.0E-12 AW341683.1	3.0E-12 AW341683.1	Γ		3.0E-12 AB042297.1			3.0E-12 U37672.1	6764495 NT
Most Similar (Top) Hit BLAST E Value	5.0E-12 AL	5.0E-12 AV	5.0E-12 AL	5.0E-12	5.0E-12	5.0E-12	5.0E-12 P34982	5.0E-12 AL	4.0E-12	4.0E-12	4.0E-12 AI	4.0E-12 U7	4.0E-12		4.0E-12	4.0E-12	4.0E-12 U7	-,	3.0E-12	3.0E-12	3.0E-12	3.0E-12	3.0E-12	3.0E-12	3.0E-12	3.0E-12	2.0E-12
Expression Signal	6.41	12.28	1.03	1.08	1.22	2.69	1.19	4.55	4.61	5.04	1.03	0.99	0.77		3.73	2.96	1.98		3.32	3.32	1.36	0.6	0.57	0.5	2.92	2.92	1.11
ORF SEQ ID NO:	31615	32156		32471	34142	Ì	34982		25273		28659					36292			25606	26607							28405
Exon SEQ ID NO:	18885	19381	19675	19875	21234	ı	1	<u> </u>	12856	12856	17180	17885	20573	1	21244	23298	24262		13189	13199		19952	20349	20723	22899		15987
Probe SEQ ID NO:	6325	6840	7460	7471	8800	9416	9636	10229	257	258	4684	5388	8150		8810	10865	12106		635	8	5709	7449	7910	8308	10448	10448	3443

Table 4
Single Exon Probes Expressed in Lung

Top Hit Descriptor	Rat U3A small nuclear RNA	Rat U3A small nuclear RNA	CM0-BT0281-031199-087-a03 BT0281 Homo saplens cDNA	TBX15 PROTEIN (T-BOX PROTEIN 15)	TBX16 PROTEIN (T-BOX PROTEIN 15)	RETROVIRUS-RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASEI	EST383946 MAGE resequences, MAGL Homo sapiens cDNA	EST06060 Infant Brain, Bento Soares Homo saplens cDNA clone HIBBA13 6' end	MR0-HT0559-200400-015-e08 HT0559 Homo saplens cDNA	MR2-CN0037-210200-101-b02 CN0037 Hamo sapiens cDNA	Homo sapiens Ac-like transposable element (ALTE), mRNA	Homo sapiens putative BPES syndrome breakpoint region protein gene, complete cds	MR3-HT0487-150200-113-g01 HT0487 Homo saplens cDNA	Homo sapiens chromosome 21 segment HS21C083	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA	hh90a09.x1 NCI_CGAP_GU1 Homo sepiens cDNA done IMAGE:2970040 3' similar to contains MER18.t1	MER18 repelliive element;	wm51f07.x1 NCL_CGAP_U/2 Homo sapiens cDNA clone IMAGE:2439493 3' similar to contains L1.b3 L1	מלבתואס מכוונמוו ,	Homo sapiens testis-specific 1 estis 1 ranscript Y Z (1 1 Yz) mKNA, partai cos	Homo sapiens testis-specific Testis Transcript Y 2 (TTY2) mRNA, partial cds	AU132248 NT2RP3 Homo saplens cDNA clone NT2RP3004070 5'	AU132248 NT2RP3 Homo sapiens cDNA clone NT2RP3004070 5'	Homo sapiens ataxa telangiectasia (ATM) gene, complete cds	HYPOTHETICAL ZINC FINGER PROTEIN KIAA0961	EST00008 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1847869 5'	EST00008 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1847869 5'	Mus musculus WNT-2 gene, partial cds; putative anicyrin-related protein and cystic fibrosis transmembrane	conductance regulator (CFTR) genes, section 1 of 2 of the complete cds; and unknown gene	bb85a11.y1 NIH_MGC_10 Homo sepiens cDNA clone IMAGE:3049148 5' similar to TR:Q63291 Q63291 L1 RETROPOSON, ORF2 MRNA ;	Homo sapiens putative BPES syndrome breakpoint region protein gene, complete cds
Top Hit Database Source	N FN	IN IN	EST_HUMAN (SWISSPROT	SWISSPROT	SWISSPROT	Т	Г		EST_HUMAN		F	EST_HUMAN	N			EST_HUMAN		NEWOCE -		NT		EST_HUMAN	TN	SWISSPROT		Г		LN	EST_HUMAN	П
Top Hit Acessian No.	101884.1		2.0E-12 BE063509.1	270306	270306	211369	4W971857.1	T08169.1	3E173035.1	4W842798.1	11422229 NT	AF196864.1	BE165980.1	AL163283.2	11418248 NT		AW627674.1	A 007.4701A	AIO/ 1/20.1	AF000991.1	AF000991.1	AU132248.1	AU132248.1	U82828.1	Q9Y2G7	BF642800.1	BF642800.1		AF229843.1		AF198864.1
Most Similar (Top) Hit BLAST E Value	2.0E-12	2.0E-12	2.0E-12	2.0E-12 O70306	2.0E-12 O70306	2 0E-12 P11369	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12		1.0E-12	77 10 7	1.05-12	1.0E-12	İ		1.0E-12	1.0E-12	1.0E-12	1.0E-12	1.0E-12		1.0E-12		1.0E-12
Expression Signal	1.05	1.05	2.13	2.0	0.7	0 79	1.87	4.14	1.4	0.57	2.42	1.83	10.27	3.31	1.36		2.36	•		0.97	. 0.97	45.05	45.05	1.83	1.73	0.62	0.52		0.54	0.44	2.18
ORF SEQ ID NO:	29045				29854	30331		32820			33501						25153					28820				31756	31757		32197		32847
Exan SEQ ID NO:	16659	16659	1_	17477	17477	18090	1_	_			20614	22121	L		24150	L	12738		┙	i	15586		16417	18830	18905	19022	19022		19423		20005
Probe SEQ ID NO:	4131	4131	4449	4966	4968	5480	6823	7619	7811	8043	8192	9558	10023	11734	11943		127		1831	3031	3031	3882	3882	6267	6347	6467	6467		6883	7070	7555

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7691	20040	32888	12.45		1.0E-12 Al248533.1	EST_HUMAN	qh68a04.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:1849614.3' similar to gb:M19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);contains MER10.t1 MER10 repetitive element;
							qh66a04.x1 Soares_fetai_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:1849614.3' similar to gb:M19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);contains MER10.t1 MER10
7591				ľ	1.0E-12 AI248533.1	EST HUMAN	repetitive element;
9139	21571	34478	1.35			EST HUMAN	ac2dd05.51 Stratagene overy (#65/217) Homo sepiens cDNA done iMAGE:65/57/3
11865		\perp			╽	FST HIMAN	w23h08.x1 NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:2392095 3'
12022			1.75		1.0E-12 AL163268.2	N	Homo septens dyromosome 21 segment HS210068
12362	L		1.74		1.0E-12 AF224669.1	Ę	Homo sepiens mannosidess, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
3626	16165		2.39		9.0E-13 AJZ71735.1	Z	Homo sepiens Xq pseudoautosomal region; segment 1/2
. 3959					9.0E-13 AB029900.1	LX LX	Homo sepiens CST gene for cerebroside sulfatransferase, exan 1, 2, 3, 4, 5
7736	<u>L</u>	33041			9.0E-13 AL163283.2	TN	Homo saplens chromosome 21 segment HS21C083
9765	22168				9.0E-13 N69853.1	EST_HUMAN	za26b06.s1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:283651 3'
737	13298	25722	7.01		8.0E-13 U29185.1	NT	Homo sepiens prion protein (PrP) gene, complete cds
737	13298		7.01		8.0E-13 U29185.1	NT	Homo sapiens prion protein (PrP) gene, complete cds
1812	14335	26829	1.16	8.0E-13 U	U80017.1	N	Homo sepiens basic transcription factor 2 p44 (bft2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
	l						Homo sapiens Bruton's tyrosine kinase (BTK), apha-D-galactosidase A (GLA), L44-like ribosomal protein
10148	- 1				8.0E-13 U/8027.1	NI TOT	(L44L) and Firs (Firs) garles, complete cus
200	20857	33/61	0.56		7.0E-13 A1884398.1	FOT LIMAN	WILD INVESTIGATION CONTINUES THAT SERVICE STATES AND SERVICE SERVICES OF SERVICES AND SERVICES A
12141	_				7.0E-13 BE778223.1	EST HUMAN	801463285F1 NIH MGC 67 Homo saplens cDNA clone IMAGE:3886613 57
	丄						POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE (PROTEIN-UDP
12386	24428		1.44		7.0E-13 Q10473	SWISSPROT	ACETYLGALACTOSAMINYLTRANSFERASE) (UDP-GALNAC:POLYPEPTIDE, N- ACETYLGALACTOSAMINYLTRANSFERASE) (GALNAC-T1)
2023	14539	27052			6.0E-13 AL163207.2	F	Homo saplens chromosome 21 segment HS21C007
3280	15839		0.76	6.0E-13 R	R78338.1	EST_HUMAN	yB2f04.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145769 6'
3376	16922		1.66	5.0E-13 A	AA435773.1	EST HUMAN	প্র77a12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728350 3' sImilar to contains Atu jepetitive element;contains element MER22 repetitive element ;
7280	Ш	32594			3 P08983	SWISSPROT	GAP JUNCTION BETA-1 PROTEIN (CONNEXIN 30) (CX30)
10641		36066			5.0E-13 P07313	SWISSPROT	MYOSIN LIGHT CHAIN KINASE, SKELETAL MUSCLE (MLCK)

				Most Similar		Ton Hit	
SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Source	Top Hit Descriptor
1837	14359		1.94	4.0E-13	AW378614.1	EST_HUMAN	PM2-HT0224-221099-001-e11 HT0224 Homo saplens cDNA
2357	L		1.01	4.0E-13	AF003529.1	NT	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
4800			1.22	4.0E-13		EST_HUMAN	2x48d07,r1 Scares_testis_NHT Homo sapiens cDNA clone IMAGE:795469 5
5853	18432	31104	4.78	4.0E-13	BE169131.1	EST_HUMAN	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
7651	20097	32949	1.48	4.0E-13	AB037750.1	IN	Homo sapiens mRNA for KIAA1329 protein, partial cds
8130	20582	33430	66 0	4 0F-13	AA431529.1	EST HUMAN	zw76g12.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:782182 6' similar to TR:G452763 G452763 COR1 MRNA. :
	L	Ŀ				G.	y33g05.r1 Soares melanocyte ZNbHM Homo sapiens cDNA clone IMAGE:273080 6' similar to PIR:A32995
8267			2.05		N44291.1	EST HUMAN	A32995 t complex startilly protein - mouse :
9245	21677	34586	1.24	4.0E-13	AL043810.1	EST_HUMAN	DKFZp434A0128_r1 434 (synonym: htes3) Homo septens cDNA clone DKFZp434A0128 5
10040	22454	35300	4.67	4.05-13	A1289831 1	NAMIN TSE	qn32d05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1899945 3' similar to contains Afu repetitive element:
	L	L		2			Homo saciens X-linked anhidratic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
184	12786		5.76	3.0E-13	AF003528.1	۲	Subject
888	L		2.44	3.0E-13	AA430310.1	EST_HUMAN	zw68g08.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781406 5
2376	14881		1.69	3.0E-13	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2801	15097	27612	8.48	3.0E-13	BF372962.1	EST_HUMAN	CM3-FT0100-140700-242-h08 FT0100 Homo seplens cDNA
3144	15697		2.95	3.0E-13	AA745844.1	EST_HUMAN	ob 18402.s1 NCI_CGAP_Kld5 Homo saplens cDNA clone IMAGE:13240353'
3482	16026	28446	3.2	3.0E-13	P18616	SWISSPROT	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (VERSION 1)
3482	16025	28447	3.2	3.0E-13	P18616	SWISSPROT	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (VERSION 1)
6803	18383	31043	0.83	3.0E-13	AA134017.1	EST HUMAN	zn88h10.r1 Stratagene lung cercinoma 837218 Homo sapiens cDNA clone IMAGE:565315 6' similar to contains THR.t2 THR repetitive element;
							zn88h10,r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone iMAGE:565315 5' similar to
5803	18383	31044	0.83	3.0E-13	AA134017.1	EST_HUMAN	contains HK-t2 HK repetitive element;
6294	18856	31677	0.86	3.0E-13	AW005639.1	EST_HUMAN	wz8602.x1 NCI_CGAP_Brn25 Homo sepiens cDNA clone IMAGE:2665890 3' strullar to TR:O75139 075139 KIAA0644 PROTEIN ;
							Homo sapiens X28 region near ALD focus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR),
8549	20984	33883	7.91	3.0E-13	U52111.2	L N	CDM protein (CDM), adrenoleukodystrophy protein >
10468	22918		5.09	3.0E-13	Ai064768.1	EST_HUMAN	HA0536 Human fetal liver cDNA library Homo saplens cDNA
10826	3282		3.85		BE063509.1	EST_HUMAN	CM0-BT0281-031199-087-e03 BT0281 Homo sapiens cDNA
11347		36768	2.1	3.0E-13	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048

							0.
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
164	12769	26177	2.82	2.0E-13 UR	U52111.2	<u>L</u>	Homo saplens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMIKI), creatine transporter (CRTR), CDM protein (CDM), adranofanicothstrophy protein >
252					2.0E-13 U23839.1	Z	Danio rerio fibroblast growth factor receptor 4 mRNA, complete cds
1303	13838	26287	6.78		2.0E-13 AF239710.1	FA	Homo sepiens DNA polymenase delta small subunit (POLD2) gene, exxons 1 through 11 and complete cds
2963	15518	27938			8924119 NT	- LN	Homo saplens hypothetical protein PRO2130 (PRO2130), mRNA
2963					8924119 NT	LN	Homo saplens hypothetical protein PRO2130 (PRO2130), mRNA
3243	l			2.0E-13 B	F43189	EST_HUMAN	nab76f05.x1 Scares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMAGE: 3'
3486	16029	28451	1.82		AF109907.1	TA.	Homo sapiens S184 gene, partial cds, PS1 and hypothetical protein genes, complete cds, and S171 gene, partial cds
4125	16854		1.81	2.0E-13	2.0E-13 AL163278.2	Ψ	Homo sapiens chromosome 21 segment HS210078
6435		31722	4.66		2.0E-13 Q06852	SWISSPROT	CELL SURFACE GLYCOPROTEIN 1 PRECURSOR (OUTER LAYER PROTEIN B) (S-LAYER PROTEIN 1)
6521			0.57	2.0E-13	2.0E-13 X79417.1	NT	S. scrofa rps12 mRNA for ribosomal protein S12
7205					2.0E-13 X16912.1	LN L	Human PFKL gene for liver-type 8-phosphofructokinase (EC 2.7.1.11) exon 2
7485					10835072 NT	IN	Homo sapiens N-myristoyltransferase 1 (NMT1), mRNA
7485	19689				10835072 NT	NT	Homo sapiens N-myristoyltransferase 1 (NMT1), mRNA
10347	22747	35714			5031896 NT	L	Homo sapiens mab-21 (C. elegans)-like 1 (MAB21L1) mRNA
11815	24072		10.86		2.0E-13 AW892155.1	EST_HUMAN	CM0-NN0001-100300-274-e11 NN0001 Homo sapiens cDNA
305	12900	25319	1.46	1.0E-13	1.0E-13 S74129.1	N	FGF-1=fibroblast growth factor 1 [human, Iddney, Genomic, 342 nt, segment 2 of 2]
911	13465		4.84	1.0E-13	AJ007973.1	NT	Homo sapiens LGMD2B gene
1368	13902	26359	1.21	1.0E-13	1.0E-13 X87344.1	TN	H,saplens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 genes
40,60	44470			107			rw2/g02.s/1 NCI_CGAP_GCB0 Homo sapiens oDNA done IMAGE:1241138 3' similar to contains THR.t3
002	1		4.84	ſ	1.0E-13 AA/205/4.1	EST HUMAN	IHR repetitive element;
6785	1	32088			1.0E-13 BAND0732 1	EST HIMAN	WZWSOWSKI I NOL COM DITTOR TOTTO SEPTETS CONA CIONE INVIGENTACION DI VISSE sen El Himan (ata) heart I ambde 74D Extrane Home emison, ADNA 61
8569	Į.			1.0E-13	1.0E-13 AA577812.1	EST HUMAN	rm24d01.s1 NCI_CGAP_Gas1 Homo sapiens cDNA clone INAGE:1084801 3' similar to contains Alu repetitive element contains element MER24 repetitive element.
8569	21004	33903	0.92				rn24d01.s1 NCI_CGAP_Gas1 Homo sapiens cDNA clone IMAGE:1084801 3' cimilar to contains Alu repetitive element contains element MER24 repetitive element:
10107	22508					Ι.	MELANOMA-ASSOCIATED ANTIGEN B4 (MAGE-B4 ANTIGEN)

Probe SEQ ID NO:	_ 0)	Ŗ O	Expression	Most Similar (Top) Hit BLAST E Value		Top Hit Database Source	Top Hit Descriptor 745e10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Hamo sapiens cDNA clone IMAGE:3524443 3' similar to
11134	23586	36627	7.81	1.0E-13	BF108755.1	EST HUMAN	Contains MEKZU.DZ MEKZU repeturve eternent; AV748377 DCR Homo semiens cDNA clone DCBAIF03 5
2070	┸		CAN	1.05-13		TI TOWN	Home contains Values and the contains contains contains to the contains values of 170
12321	24408		43	1.0E-13		2 2	House agricultural base of the contract of the
	<u> </u>						aj24c01.s1 Soares_testis_NHT Homo saplens cONA clone 1391232 3' similar to contains MER19.f1 MER19
347	12937	25352	3.18	9.0E-14	AA781159.1	EST_HUMAN	repetitive element ;
348	12938	.25353	4.22	9.0E-14	AA781159.1	EST_HUMAN	aj24c01.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391232 3' similar to contains MER19.11 MER19 repetitive element ;
2407	14911	L	2.74	9.0E-14	AW861577.1	EST_HUMAN	RC4-CT0322-080100-013-d09 CT0322 Homo septens cDNA
2513	15014			9.0E-14	AJ133127.1	N	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
2513	15014			9.0E-14	AJ133127.1	NT	Homo saplens mRNA for sodium-glucose cotransporter (SGLT2 gene)
2711	15201		6.08	9.0E-14	AB038162.1	TN	Homo sapiens TFF gene cluster for trefoil factor, complete cds
3072	15626	28032	6.78	9.0E-14	AW513296.1	EST_HUMAN	xx54h05x1 NCL_CGAP_Ut1 Homo saplens cDNA clone IMAGE:2707833 3'
							ej24c01.s1 Scares_testis_NHT Homo sapiens cDNA clone 1391232 3' similar to contains MER19.11 MER19
3197				9.0E-14		EST_HUMAN	repetitive element;
3801			7.69	9.0E-14		NT	Human DNA, SINE repetitive element
4811		29702	1.93	9.0E-14	AJ002153.1	NT	Saguinus oedipus gene for seminal veside secreted protein semenogelin i
3474	16017		1.53			EST_HUMAN	hz71c09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213424 3'
3966			3.67	L	R76269.1	EST_HUMAN	y72e03.r1 Soares placenta Nb2HP Homo saplens cDNA clone IMAGE:144798 3'
8652		33843	7.14		X89211.1	NT	H.saplens DNA for endogenous retroviral like element
9740	22067		4.56	8.0E-14	AA218316.1	EST_HUMAN	zq17c10.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:629970 3'
12031	24203	30955	2.05	8.0E-14	AI688118.1	EST_HUMAN	wc92h08.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE;2326143 3'
1638	15316	-	3.26	7.0E-14	AW151673.1	EST_HUMAN	x67e10x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2623146 3' similar to contains MER10.t2 MER10 repetitive element ;
382	12969	25389	14.46	6.0E-14	AF020503.1	TN	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5
6068	9 22311	35255	2.22	6.0E-14	AF020503.1	LN LN	Homo sapiens FRA3B common fragile region, cladenostne triphosphate hydrolase (FHIT) gene, exon 5
6066	22311	35256	2.22	6.0E-14	AF020603.1	۱	Homo sapiens FRA3B common fragile region, cladenosine triphosphate hydrolese (FHIT) gene, exon 5
637	<u>L</u>					SWISSPROT	CANALICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER 1 (MULTIDRUG RESISTANCE- ASSOCIATED PROTEIN 2) (CANALICULAR MULTIDRUG RESISTANCE PROTEIN)

.						,	
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
5167	17871	30035	1.08	5.0E-14 A	AW073791.1	EST_HUMAN	xb03b05.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2875;185 3' similar to contains L1.t2 L1 repetitive element ;
5795	18378	31034	5.13				LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
1160			2.13		4.0E-14 P04928	SWISSPROT	S-ANTIGEN PROTEIN PRECURSOR
1848	14370	26865	6.48		4.0E-14 AJ007973.1		Homo sapiens LGMD2B gene
3753	16292		0.87		4.0E-14 AA046502.1	EST_HUMAN	2467a06.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487868 5
4310	. 16834	29222	96:0		4.0E-14 N46328.1	EST_HUMAN	yy73c12.s1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:279190 3' similar to contains L1.t3 L1 repetitive element;
12308			A 80	_	AI886224.1	EST HUMAN	wm08c03.x1 NCI_CGAP_Ut4 Homo saplens cDNA clone IMAGE:2435332 3' sImilar to contains Alu repetitive element;
973	1	25968				TN	R.norvegicus mRNA for CPG2 protein
F004					1.7	FST HUMAN	xp45f12.x1 NCI_CGAP_HN11 Homo septens cDNA clone IMAGE:2743343 3' similar to contains Alu repetitive element contains element MER9 repetitive element;
3	1						teg1c12.x1 NCI_CGAP_Pr28 Hamo saplens cDNA clane IMAGE:2094070 3' similar to TR:000519 000519
7113	19646	32441	0.95	3.0E-14 A	AI420786.1	EST_HUMAN	FATTY ACID AMIDE HYDROLASE.;
7113	19846	32442	0.95		3.0E-14 Al420786.1	EST HUMAN	te91c12.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2094070 3' similar to TR:000519 000519 FATTY ACID AMIDE HYDROLASE.;
7239	1			L	3.0E-14 AL163248.2	Z	Homo saplens chromosome 21 segment HS21C048
7457	I_	32794			3.0E-14 AA386311.1	EST_HUMAN	EST185054 Brain IV Homo sapiens cDNA
9204	l	34545			N42165.1	EST_HUMAN	yo7510.r1 Soares melanocyte 2NbHM Homo saplens cDNA clone IMAGE:270523 5'
10774	L				BE888016.1	EST_HUMAN	601511530F1 NIH_MGC_71 Hamo sapiens cDNA clone IMAGE:3913087 5'
11003		29888	4.41		3.0E-14 AW285354.1	EST_HUMAN	xp45f12.x1 NCI_CGAP_HN11 Homo sepiens cDNA clone IMAGE:2743343 3' similar to contains Alu repetitive element;contains element MER9 repetitive element;
12302		L			3.0E-14 AL163285.2	N	Homo saplens chromosome 21 segment HS21C085
405		L			2.0E-14 AJ271736.1	LN	Homo sapiens Xq pseudœutosomal region; segment 2/2
405		25404			2.0E-14 AJ271736.1	N	Homo saplens Xq pseudoautosomal region; segment 2/2
710				2.0E-14 A	AL 163303.2	١	Homo sepiens chromosome 21 segment HS21C103
2286		L			ı«	EST HUMAN	RC5-BT0377-091299-031-D12 BT0377 Hamo saplens cDNA
2361	_		2.45	20E-14	1	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
2431	1 14934	27448			4 AL163209.2	N	Homo sapiens chromosome 21 segment HS21C009
	1						hv90g10.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3180739 3' similar to contains Alu
2451	- 1		2.41		BE222432.1	EST HOMAN	Teperative element, contains OFF. II OFF Teperative element.
2614	- 1				2. II	SWISSPROI	LINES I REVENUE I I ASE I DOMOLOGO
578	18367	30829	1.09	2.0E-14	t BF380661.1	EST_HUMAN	IL2-U10072-240800-142-D07 U10072 Homo sepiens cLinA

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6888	18467	31145	16:0	2.0E-14	Al312351.1	EST_HUMAN	Ta78h01.x2 NCI_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2050225 3' struitar to contains L1.t3 L1 repetitive element ;
5995	L	31255		2.0E-14	U01317.1	NT	Human beta globin region on chromosome 11
7288	L			2.0E-14	BE000550.1	EST_HUMAN	RC3-BN0072-240200-011-a06 BN0072 Homo sapiens cDNA
7621		32806	0.41	2.0E-14	4585709	TN	Homo sapiens a disintegrin and metalloproteinase domain 11 (ADAM11) mRNA
7742	20186	33048	1.04	2.0E-14	P56163	SWISSPROT	ZINC-FINGER PROTEIN NEURO-D4
8013	L	33315		2.0E-14		EST_HUMAN	IL2-HT0387-071289-024-D04 HT0397 Homo sapiens cDNA
8013	L			2.0E-14		EST_HUMAN	IL2-HT0397-071289-024-D04 HT0397 Homo sapiens cDNA
10563	L	35997			AW139800.1	EST_HUMAN	UFH-BI1-adw-a-10-0-UI.s1 NCI_CGAP_Sub3 Homo explens oDNA clone IMAGE::2/18234 3
12298	24834		1.37			NT	Homo saplens putative G6 protein (GR6) gene, complete cds
1093	L	26077	1.66			·	Homo saplens chromosome 21 segment HS210346
1438	L	28425	9.11	1.0E-14		IN	Homo saplens chromosome 21 segment HS210068
1438	13970	26426	9.11	1.0E-14	AL163268.2	TN	Homo saplens chromosome 21 segment HS21 C068
ŀ							Homo sapiens chromosome X region from filamin (FLN) gene to glucose-6-phosphate dehydrogenase
1944	14463		12.23			뒫	(G6PD) gene, complete cds's
2091	14605	27122	3.65	1.0E-14	AL163303.2	NT	Homo sepiens chromosome 21 segment HS21C103
2307	14814	27331	9.37	1.0E-14	AF001689.1	LN	Homo septens ribosomal protein L23A (RPL23A) gene, complete cds
2898	15463	27879	1.1	1.0E-14		SWISSPROT	HISTIDINE-RICH PROTEIN PRECURSOR (CLONE PFHRP-II)
3126	15879	28094	3.65	1.0E-14	t BF335227.1	EST_HUMAN	RC2-CT0432-310700-013-a09_1 CT0432 Homo saplens cDNA
3126	[_	28095	3.65	1.0E-14	BF335227.1	EST_HUMAN	RC2-CT0432-310700-013-409_1 CT0432 Homo septens cDNA
3895	16430	28836	2.38	1.0E-14	4 AA682994.1	EST_HUMAN	ae89o12.s1 Stratagene schizo brain S11 Homo saplens cDNA clone IMAGE:971350 3'
4508	17028	29405		1.0E-14	4 AW275852.1	EST_HUMAN	xq39h10.x1 NC _CGAP_Lu28 Hamo sapiens cDNA clone IMAGE:2753059 3'
8003			2.05	1.0E-14	4 AF128145.1	ħ	Bos taurus xenobiotic/medium-chain fatty acid:CoA ligase form XL-III mRNA, nuclear mRNA encoding mitochondrial protein, complete cds
7043	上				4 11437150 NT	N	Homo saplens prominin (mouse)-like 1 (PROML1), mRNA
7043						NT.	Homo sapiens prominin (mouse)-like 1 (PROML1), mRNA
1593	L			9.0E-15	5 7427522 NT	ΤN	Homo saplens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
							Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein,
							JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes,
2080	14594		4.81	9.0E-15		IN	complete cds; and L-type calcium channel a>
5078	17588				5 BF335227.1	EST_HUMAN	RC2-CT0432-310700-013-a09_1 CT0432 Homo sapiens cDNA
8000	20434		9 4.55		5 P21416	SWISSPROT	GAG POLYPROTEIN (CONTAINS: CORE PROTEINS P16, P12, P30, P10)
8644		33986			5 BE903559.1	EST_HUMAN	601677750F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3960158 5
2769	13071		1.12	8.0E-15	5 BE261482.1	EST_HUMAN	601148632F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:3164023 5

			П			7										- 1				Ţ			9.11			\neg	€
Top Hit Descriptor	601458531F1 NIH_MGC_66 Homo seplens cDNA clone IMAGE:3862086 5	Nn77d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2700483 3' similar to contains THR.t2 THR repetitive element;	Homo saplens Xq pseudoautosomal region; segment 2/2	O arles mRNA for hair keratin cysteine-rich protein	O.arles mRNA for hair keratin cysteine-rich protein	Homo saplens chromosome 21 segment HS21C008	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds	AV730056 HTF Homo sapiens cDNA clone HTFAVE06 5'	Homo sapiens chromosome 21 segment HS21C103	DKFZp761C0810_r1 761 (synonym: hamy2) Homo saptens cDNA clone DKFZp761C0810 5	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0501	Homo sapiens mRNA for transcription factor	Homo saplens mRNA for transcription factor	Homo sapiens mRNA for transcription factor	Homo sapiens mRNA for transcription factor	LY1142F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA done LY1142 5' stmilar to ANF(CARDIODILATIN)	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 5	7P01F03 Chromosome 7 Placental cDNA Library Homo sapiens cDNA clone 7P01F03	7P01F03 Chromosome 7 Placental cDNA Library Homo saplens cDNA clone 7P01F03	GLUTATHIONE PEROXIDASE RY2D1 PRECURSOR (ODORANT-METABOLIZING PROTEIN RY2D1)	Mus musculus ultra high sulfur keratin gene, complete cds	Mus musculus ultra high sulfur keratin gene, complete cds	oc36s07.s1 NCI_CGAP_GCB1 Hamo saplens cDNA clane IMAGE:1351764 3' similar to contains MER19.t1 MER19 repeditive element;	Hamo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	complete cds)	Homo sapiens Xq pseudoautosomal region; segment 1/2	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
Top Hit Database Source	EST_HUMAN	EST HUMAN	M	ᅜ	NT	TN	Ę	EST HUMAN	N	EST_HUMAN	LZ LZ	<u>k</u>	F	<u>N</u>	LN LN	EST HUMAN	SWISSPROT	EST_HUMAN	EST_HUMAN	SWISSPROT	TN	LN	EST HUMAN		TN	NT	Υ
Top Hit Acession No.	3F035327.1	AW241958.1	AJ271736.1	X73462.1	X73462.1	AL163208.2	U91328.1	AV730056.1	AL163303.2	AL118596.1	AB007970.1	AJ130894.1		AJ130894.1	AJ130894.1	N89452.1		AA078097.1	AA078097.1	Q64625	M27685.1	M27685.1	AA807128.1		AB026898.1	AJ271735.1	AF223391.1
Most Similar (Top) Hit BLAST E Value	7.0E-16	7.0E-15	6.0E-15	6.0E-15	6.0E-15	6.0E-15	5.0E-16	5.0E-15	4.0E-15	4.0E-15	4.0E-15	4.0E-15		4.0E-15	4.0E-15	3.0E-16			3.0E-15	3.0E-15	3.0E-15	3.0E-15	3.0E-15		3.0E-15	3.0E-15	2.0E-15
Expression Signal	1.28	2.43	9.64	1.35	1.35	7.7	6.07	2.34	2.58	0.67	0.96	0.55	0.55	2.87	2.87	8.05	6.0		0.73	1.34	4.02	4.02	1.97		2.67	1.59	5.75
ORF SEQ ID NO:	32926		26015			25427	27726		25009			l		l				L	30002		33038	33039			36008		25279
Exan SEQ ID NO:	20073	l	L	18781	1	13001	15209	22917	12622			ł	1	L	20888	16758	_	ļ	17639	19915	20178	20178	22389	<u>L</u>	3 23023	24868	12861
Probe SEQ ID NO:	7625	10328	1020	6215	6215	427	2719	10467	44	4149	7032	8476	8475	10844	10844	4231	909	5134	5134	728	133	13	8987		10576	12039	263

Table 4 Single Exon Probes Expressed in Lung

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
383	12970	26390	4.4	2.0E-15	AF223391.1	NT	Homo sepiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
383	12970	25391	4.4	2.0E-15	AF223391.1	TN	Homo seplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3489	16032	28453	1.02	2.0E-15	AF223391.1	ΤN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3489	16032	28454	1.02	2.0E-15	_	FX	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
4666	17182		2.64	2.0E-15	AI806335.1	EST_HUMAN	wf07f06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone iMAGE:2349923 3' similar to TR:Q61043 Q81043 NINEIN: ;
6486		31790	1.1	2.0E-15	BE562352.1	EST HUMAN	601344253F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677268 5'
6496	19050	31791	1.1	2.0E-15	BE562352.1	EST_HUMAN	601344253F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677268 5'
7553	20003		1.7	2.0E-15	AJ400877.1	LN	Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gane, C11orf16 gene and C11orf17 gene
7725		33029	2.76	2.0E-15	_	T HUMAN	277e03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:460924 3'
7874	20313	33179	5.35	2.0E-15	W05064.1	EST HUMAN	za78d10.r1 Soares, fetal lung NbH1.19W Homo sapiens cDNA done IMAGE:298675 5' similar to WP:F44F4.8 CE02227 TRANSPOSASE;
8420	20834	33730	0.55	2.0E-15	AL163247.2	LN	Homo saplens chromosome 21 segment HS21C047
9283	21715	34625				NT	Human DNA, SINE repetitive element
9391	Ш				AA397758.1	EST_HUMAN	#277g08.r1 Sogres_testis_NHT Homo sapiens cDNA clone IMAGE:728414 5'
9391	_	34740		2.0E-15	_	EST_HUMAN	z77g08.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728414 5'
9622				2.0E-15	_	EST_HUMAN	CM0-HT0244-201099-076-a12 HT0244 Homo saplens cDNA
9622		34970		2.0E-15		EST_HUMAN	CM0-HT0244-201099-078-a12 HT0244 Homo saplens oDNA
10817	23080		2.2	2.0E-15	AJ271735.1	NT	Homo saplens Xq pseudoautosomal region; segment 1/2
12422	16032	28453	3.31	2.0E-15	AF223391.1	NT.	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively { spliced
12422	16032	28454	3.31	2.0E-15	AF223391.1	TN	Homo sepiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
2733	15223		2.49	1.0E-15	AI689984.1	EST HUMAN	628r05.x1 NCL_CGAP_Lu24 Homo septens cDNA clone IMAGE:2270745 3' stmilar to TR:Q13539 Q13539 MARINER TRANSPOSASE.;
2970		27947	1.23	1.0E-15	BE043584.1	EST_HUMAN	hk40e02.y1 NCI_CGAP_Ov34 Homo saplens cDNA clane IMAGE:2899162 5'
3102	_					SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
4381						EST HUMAN	RC3-HT0649-100500-022-b05 HT0649 Homo sapiens cDNA
5314	17814	30178	3.26	1.0E-15	A1984928.1	EST_HUMAN	wr86e04.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2494590 3'

8EQ ID NO: NO: 17430 17480 8803 8803 8804 8804 8804 8804 8946 8946 8077 10600 10600 10600 10775 11246 11273 112848	Exan SEQ ID NO: 19252 19935 19972 21379 21379 21878 224879 1520250 20250 24780 14689	32004 32466 32466 34144 34282 34282 34282 34112 34112 34112 36186 31123 33110 33111	Signal Signal Signal Signal 1.85 2.44 0.7 0.7 0.88 3.06 6.26 6.26 6.26 6.26 1.29 0.81 1.29 1.29 1.29 1.29 1.29 1.35 1.35 1.35 1.35 1.35 1.35 1.35 1.35	Most Similar (Top) Hit BLAST E Value 1.0E-16 1	Top Hit Acession No. No. No. 185763.1 BE074217.1 P39057 AL163280.2 AI200976.1 AI200976.1 AI200976.1 AF044083.1 AF04408.1 AF0872611.1 AF0872611.1 AF0872611.1 AF0872611.1 AF0872611.1 AF0872611.1	Top Hit Database Source Source Source Source SWISSPROT NT SWISSPROT STANDAN NT	PedDe10.s1 Soares fetal liver spleen 1NFLS Homo explens cDNA clone IMAGE:120234 3' similar to containe IMER operative selenants. WERR operative selenants. WERR operative selenants. WERR operative selenants. DYNEIN BETA CHAIN, CILLARY Homo explens chromosome 21 segment HS210080 GR96N06.x1 Scenes, isostals. NIFT Homo explens cDNA done IMAGE:1755227 3' GR96N06.x1 Scenes, isostals. NIFT Homo explens cDNA done IMAGE:1755227 3' GR96N06.x1 Scenes, isostals. NIFT Homo explens cDNA done IMAGE:1755227 3' GR96N06.x1 Scenes, isostals. NIFT Homo explens cDNA done IMAGE:1755227 3' GR96N06.x1 Scenes, isostals. NIFT Homo explens cDNA done IMAGE:1459072 3' similar to contains L1.t3 L1 force splens repentitive selement: DYNEIN CAMMA CHAIN, FLAGELLAR OUTER ARM DYNEIN GAMMA CHAIN, FLAGELLAR OUTER ARM DYNEIN ACCOSAP_LOV23 Homo explens cDNA clone IMAGE:219912 3' similar to contains Alu repetitive element: WARRING Septens major histocompatibility locus class III region W37c05.x1 NCI_CGAP_LOV23 Homo explens cDNA clone IMAGE:219912 3' similar to contains Alu repetitive element: WARRING Septens or compatibility locus class III region W37c35.x1 NCI_CGAP_COV23 Homo explens cDNA clone EXTRAINA Homo septens or chandlone (C-C moult) reappire 8 (CCR3) mRNA Homo septens or chandlone (C-C moult) reappire 8 (CCR3) mRNA PROTEIN-ARGININE DEIMINASE TYPE ALPHA) PROTEIN-ARGININE DEIMINASE TYPE ALPHA) PROTEIN-ARGININE DEIMINASE TYPE ALPHA) PROTEIN-ARGININE DEIMINASE TYPE ALPHA) PROTEIN-ARGININE DEIMINASE TYPE ALPHA) PROTEIN-ARGININE DEIMINASE TYPE ALPHA) Mus musculus offectory receptor cluster, OR37A, OR37B, OR37C, OR37E genes and OR37D psaudogene ode0cd4 s1 Scenes_1otel_futs_UR2HFe_3w Homo septens cDNA clone IMAGE:118062 5' eminit to contain a class of the Alpha Chance septens cDNA clone IMAGE:118062 5' eminit to contain and TWDP contained for many Explens contained to the TWDP contained for mounting producing of GIPBP1), missing Alpha Chance septens contained for mounting producing and many Explenses and PMDP contained for
2274		27303				EST_HUMAN	Indino suprems gene for invicent and PWF 2, complete and parea cos QV7-UM0036-200300-115-g02 UM0036 Home sapiens cDNA
2274	$\mathbf{L}\mathbf{I}$				AW797168.1	EST_HUMAN	QV1-UM0036-200300-115-g02 UM0036 Homo saplens cDNA
3434	15978		4.44	4.0E-18	Q16653	SWISSPROT	MYELIN-OLIGODENDROCYTE GLYCOPROTEIN PRECURSOR

																				suns									9	
6	Top Hit Descriptor	PM4-BT0650-010400-002-g09 BT0650 Homo sapiens cDNA	PM4-BT0650-010400-002-g09 BT0650 Homo saplens cDNA	AV730833 HTF Homo saplens cDNA clone HTFAXE09 5'	Homo saplens chromosame 21 segment H3210084	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	C05947 Human pancreatic Islet Homo saplens cDNA clone hbc5355	Homo saplens Grb2-associated binder 2 (KIAA0571), mRNA	df45c01.,yl Morton Fetal Cochlea Homo sapiens cDNA clone INAGE:2486376 5	di45c01.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2486376 5'	DKFZp434P037_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434P037 6	Homo sapiens TSX (TSX) pseudogene, exan 5	ZONADHESIN PRECURSOR	ENVELOPE GLYCOPROTEIN GP340 (MEMBRANE ANTIGEN) (MA) [CONTAINS: GLYCOPROTEIN GP220]	EST06060 Infant Brain, Bento Soares Homo sapiens cONA clone HIBBA13 5' end	Human BXP20 gene	AV661393 GLC Homo sapiens cDNA done GLCGSA013'	7B10F02 Chromosome 7 Fetal Brain cDNA Library Homo sepiens cDNA clone 7B10F02	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions	am98h05.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:16841853' similar to contains THR.b2 THR repetitive element;	602246538F1 NIH_MGC_62 Hamo sapiens cDNA clone IMAGE:4332032 5'	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds	Homo sapiens chromosome 21 segment HS21C079	af06d04.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1030855 3'	Human SSAV-related endogenous retroviral LTR-like element	H.sapiens DNA for endogenous retroviral like element	HISTIDINE-RICH PROTEIN KE4	หูห6e11.x1 NCI_CGAP_Gas4 Homo sapians cDNA clone IMAGE:2141708 3' similar to contains element MER33 repetitive element ;	nz47708.x5 NCI_CGAP_Pr12 Homo sepiens cDNA clone IMAGE:1290947 similar to TR:054849 054849 HYPOTHETICAL 42.9 KD PROTEIN. [2] TR:008905 ;contains MER7.t1 MER7 repetitive element :	
	Top Hit Database Source	EST_HUMAN I	EST_HUMAN I	EST_HUMAN /		SWISSPROT	T_HUMAN			EST_HUMAN	T_HUMAN	П	SWISSPROT	SWISSPROT	EST_HUMAN	Г	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	N.	NT	EST_HUMAN	LN	NT	SWISSPROT	EST_HUMAN	EST HUMAN	
3:6:	Top Hit Acession No.	3E083875.1	3E083875.1	4V730833.1	AL163284.2		C05947.1	6912459 NT	AW022862.1	AW022862.1		AF135446.1	0.28983	P03200	T08169.1	U03887.1	AV661393.1	AA077225.1	AF003529.1	A1002836.1	BF690617.1	L78810.1	AL163279.2	AA621761.1	J03061.1	X89211.1	Q31125	AI470723.1	AI732837.1	
	Most Similar (Top) Hit BLAST E Value	4.0E-16	4.0E-16	4.0E-16	4.0E-16		4.0E-16	4.0E-16	3.0E-16	. 3.0E-16	3.0E-16	3.05-16	3.0E-16	3.0E-16	3.0E-16	_	3.0E-16	3.0E-16	3.0E-16	3.0E-16	3.0E-16	3.0E-16	2.0E-18		2.0E-18	2.0E-16	2.0E-16	2.0E-19	2.0E-16)
	Expression Signal	68.9	6:30	4.81	47.86	2.02	7.92	2.18	1.17	1.17	1.7	1.54	1.72	4.48	0.71	4.18	1.02	16:0	1.5	3.58	1.01	4.57	96.0	5.54	9.87	1.68	0.83	1.08	1.88	
	ORF SEQ ID NO:	29074	29075		33564			30987		25164			26478	27905			29906		31139	34448		35499				29108	32450	33570	33947	
	Exan SEQ ID NO:	16688	16688	17543	20674	24013	L	24076	12743	12743	13057	13066	14013	15485	<u> </u>		17534	18119	18463	21542	22365	22531	13548	14791	15132	16720	18654	20678	21042	
	Probe SEQ ID NO:	4161	4161	5033	8257	11714	11808	11820	137	137	483	493	1481	2930	3946	3971	5024	5529	5884	9110	9963	10130	966	2284	2837	4195	7121	1928	8607	

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exan SEQ ID . NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3635	16175	28584	0.72	4.0E-17 A	AA643697.1	EST_HUMAN	ni98e05.s1 NCI_CGAP_Co10 Homo saplens cDNA clone IMAGE:1058528 3'
9593	l		1.13	4.0E-17	4.0E-17 AW129165.1	EST HUMAN	x/20e04.x1 NCL_CGAP_Kid8 Homo sepiens cDNA clone IMAGE:2618622 3' similar to contains Alu repetitive element.contains MER19.b1 MER19 repetitive element ;
11249	1	1.		4.0E-17		NT	Homo saplans chromosome 21 segment HS21C047
11729	1	ļ	3.19	4.0E-17	4.0E-17 AI073546.1	EST_HUMAN	ow5e04.xf Soares_testis_NHT Homo sepiens cDNA clone IMAGE:1640286 3' similar to TR:Q16530 Q16530 PMS3 MRNA ;contains MER10.t2 MER10 repetitive element ;
2020	L	27048	0:30	1	3.0E-17 AW119123.1	EST_HUMAN	xd89c09.x1 Scares_NFL_T_GBC_S1 Homo saplens cDNA olone IMAGE:26047843'
3150			1.25		3.0E-17 P35410	SWISSPROT	MAS-RELATED G PROTEIN-COUPLED RECEPTOR MRG
3641	18181	28589			BE326522.1	EST HUMAN	hw05b04.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3181999 3'
3641	18181		1.29	3.0E-17	BE326522.1	EST_HUMAN	hw05b04.x1 NCI_CGAP_Lu24 Home sapiens oDNA clone IMAGE:3181999 3'
8827	21281	34167	1.34	3.0E-17 N	N88451.1	EST HUMAN	za14b02.s1 Soares fetal liver spleen 1NFLS Homo saplans cDNA clone IMAGE.292491 3' similar to contains PTR5.t3 PTR5 rapetitive element ;
9835	· .			3.0E-17	AB026898.1	Į	Hamo sepiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes; complete cds)
11690						뒫	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
12562			4.72		AV7202	EST HUMAN	AV720204 GLC Homo sapiens cDNA clone GLCDIF08 5'
196	<u> </u>	25374			_ ^	HST HIMAN	qt63a08.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:1959922 3' similar to contains Alu receitifue element:
	1	1			_	100	ANOLOGAD Esca Home seriene CDNA clone IMAGE-195022 3' similar in contains Alu
368	12957	25374		2.0E-17	AI270080.1	EST_HUMAN	tessection in the control of the con
1014	L		1.42	.20E-17	7 AA722832.1	EST_HUMAN	2g81d04.s1 Soares_fatal_heart_NbHH19W Homo saplens cDNA clone IMAGE:399751 3
2346	14851		3.61	2.0E-17	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2345	14851	27370	3.61	2.0E-17	7 028983	SWISSPROT	ZONADHESIN PRECURSOR
2884	15439	Z7860	75.7	2.0E-17	P12036	SWISSPROT	NEUROFILAMENT TRIPLET H PROTEIN (200 KDA NEUROFILAMENT PROTEIN) (NEUROFILAMENT HEAVY POLYPEPTIDE) (NF-H)
5622				Ŀ	7 M27685.1	FN	Mus musculus uttra high sulfur keratin gene, complete cds
5822		30609	1.91	2.0E-17	=	LN LN	Mus musculus ultra high sulfur keratin gene, complete cds
8858	<u> </u>	L	1.89		7 AF055066.1	NT	Homo sapiens MHC class 1 region
6836			1.38			EST_HUMAN	DKFZp782J0810_r1 762 (synonym: hmel2) Homo saplens cDNA clone DKFZp762J0610 5
8446	1					LN.	Homo sapiens mRNA for KIAA1418 protein, partial cds
8693		34028				SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN OLF3
8970	i					EST_HUMAN	EST13504 Testis tumor Homo sapiens cDNA 6 end similar to similar to glycogenin
9945						EST_HUMAN	600944680F1 NIH MGC 17 Home sapiens cDNA clone IMAGE:2860615 5
7,268	22374	35322	3.67	2.0E-17	7 AL163247.2	Z	Homo sapiens chromosome 21 segment NS21 CV4/

									_			_		_		*		· ·	-		-				-
Top Hit Descriptor	PROTEIN-GLUTAMINE GAMMA-GLUTAMYLTRANSFERASE (TISSUE TRANSGLUTAMINASE) (TGASE C) (TGC)	Homo sapiens similar to high-mobility group (nonhistone chromosomal) protein 4 (H. sapiens) (LOC63446), mRNA	Homo sapiens chromosome 21 segment HS21C010	Human accritate hydratase (ACO2) gene, exon 4	qm65g11.x1 Scares_placenta_8bb9weeks_2NbHP8to9W Homo sapiens cDNA clane IMAGE:1883668 3' strniar to contains Alu repetitive element;	Mus musculus gasdermin (Gsdm), mRNA	Human endogenous retrovirus HERV-P-T47D	MR0-HT0161-221099-002-c06 HT0161 Homo saplens cDNA	Homo saplens lymphocyte activation-associated protein (LOC51088), mRNA	Homo saplens lymphocyte activation-essociated protein (LOC51088), mRNA	MR1-SN0035-060400-001-g11 SN0035 Homo saplens cDNA	AV650547 GLC Homo sapiens cDNA clone GLCCGA02 3'	ho36h04.x1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3	MERS# repealive element	ho36h04.x1 NCI_CGAP_Ut1 Homo sapiens cDNA cione IMAGE:3039511 3' similar to contains MER29.b3 MER29 repetitive element ;	mg2411.s1 NOI_CGAP_CO10 Homo saplens cDNA clone IMAGE:1144845 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);	N-ACETYLLACTOSAMINIDE BETA-1,8-N-ACETYLGLUCOSAMINYLTRANSFERASE (N- ACETYLGLUCOSAMINYLTRANSFERASE) (I-BRANCHING ENZYME) (IGNT)	N. ACETYLLACTOSAMINIDE BETA-1, 8-N-ACETYLGLUCOSAMINYLTRANSFERASE (N. ACETYLGLUCOSAMINYLTRANSFERASE) (I-BRANCHING ENZYME) (IGNT)	ar93b08.x1 Barstead colon HPLRB7 Homo saplens cDNA clone IMAGE:2173139 3' similar to contains Alu	repetitive element;	ou23e08.x1 Scares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:1627138 3'	ou23e06.x1 Soares_NPL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1627138 3'	EST83633 Pitufiary gland, subtracted (prolactin/growth hormone) II Homo sapiens cDNA 6' end similar to EST containing O family repeat	ob23h11.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1324581 3' similar to SW:RS5_HUMAN P46782 40S RIBOSOMAL PROTEIN S5.;	CM0-BT0690-210300-298-g07 BT0690 Homo saplens cDNA
Top Hit Database Source	SWISSPROT	Į.	Z	TN	EST_HUMAN	NT	TN	EST_HUMAN	LΝ	NT	EST_HUMAN	EST_HUMAN		ES! HOMAN	EST_HUMAN	EST HUMAN	SWISSPROT	TORGREWS		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN
Top Hit Acession No.	P62181	11428155 NT	AL 163210.2	U87929.1	AI280214.1	10946665 NT	AF087913.1	E1433	10242378 NT	10242378 NT	AW867182.1	5.0E-18 AV650547.1		BEU44076.1	BE044076.1	AA621814.1	006430	ODB430		AI581586.1	Al017565.1	4.0E-18 AI017565.1	AA371807.1	3.0E-18 AA814196.1	3.0E-18 BE088634.1
Most Similar (Top) Hit BLAST E Value	6.0E-18 P52181	6.0E-18	6.0E-18 A	6.0E-18 L	6.0E-18 A	5.0E-18	5.0E-18	6.0E-18	5.0E-18	5.0E-18	6.0E-18	5.0E-18		4.0E-18 B	4.0E-18	4.0E-18 A	4 05-18 006430	4 OF-18		4.0E-18 A	4.0E-18	4.0E-18	4.0E-18 A	3.0E-18	3.0E-18
Expression Signal	4.25	2.81	0.89	2.1	14.14	0.73	1.33	4.63	3.99	3.99	7.65	18.7		1.42	1.42	5.56	2.01	200		0.63	2.48	2.48	3.63		
ORF SEQ ID NO:			34233		26158				36183					20104	25156	26726				28732		30604	36207		
Exon SEQ ID NO:	17313		L.	L	13717	16858	ı		١.			24490		12737	12737	14242	l	1	1.	16331		18206	23223		LI
Probe SEQ ID NO:	4789	8812	8888	11960	1175	4336	5524	9150	10760	10760	12096	12473		158	133	1714	2106	2108		3794	5619	5819	10785	872	954

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
3962	16497		4.1	3.0E-18	AL163247.2	L	Homo saplens chromosome 21 segment HS210047
7222	19834	32651	3.7	3.05-18	BE001671.1	EST_HUMAN	PM0-BN0081-100300-001-b08 BN0081 Homo sapiens cDNA
12246	24348		62.4	3.0E-18	AW022015.1		df31h12,y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2485126 51
284	12862	25280	3.62	2.0E-18			QV1-LT0036-150200-070-e07 LT0036 Homo sapiens cDNA
1180	13722		137.43	2.0E-18	BE256097.1	EST_HUMAN:	801114352F1 NIH_MGC_16 Homo septens cDNA clone IMAGE:3355044 5
3084	15638	28045	1.13	2.0E-18	Q39575	SWISSPROT	DYNEIN GAMMA CHAIN, FLAGELLAR OUTER ARM
5667	18252		6.1	2.0E-18	AA868610.1	EST_HUMAN	ak53a07.s1 Soeres_testis_NHT Homo septens cDNA clone IMAGE:14096523' similar to TR:014577 014577 BAC CLONE RG114A08 FROM 7031, COMPLETE SEQUENCE.;
6768	18349	30806	3.8	2.0E-18	D14547.1	, TN	Human DNA, SINE repetitive element
5768	18349	30807	3.8	2.0E-18	D14547.1	, LN	Human DNA, SINE repetitive element
6166	18734		1.78	2.0E-18	BF347229.1	EST_HUMAN	602021164F1 NCI_CGAP_Bm67 Homo septens cDNA clone IMAGE:4156670 5
6479	19034	31772		2.0E-18	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
6479	19034	31773	0.87	2.0E-18	X60459.1	LN LN	Human IFNAR gene for interferon alpha/beta receptor
6602	19153	31901	6.0	2.0E-18	BF352940.1	EST_HUMAN	IL3-HT0618-220700-222-C12 HT0619 Homo saplens cDNA
6646	19194	31946	1.68	2.0E-18	AW665853.1	EST HUMAN	hi84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979984 3' similar to contains MER19 t2 MER19 repetitive element;
7002	1			no c	A A 457040 4	HOD FOR	aa89d11.r1 Strategere fetal retina 837202 Homo sapiens CDNA clone IMAGE:838485 6' similar to
78/	ACCOZ	j		Z.UC-10	AA437018.1	EST LICINIAN	WATATO WIND COAR Good Home emions of DNA clone IMAGE-3623146 3" similar to contains MER10 12
10074	22475	35432	1.15	2.0E-18	AW161673.1	EST_HUMAN	MER10 repetitive element;
10074	22476	35433	1:15	2.0E-18	AW151673.1	EST HUMAN	xf87e10.x1 NCI_CGAP_Gas4 Homo sapiens cDNA done IMAGE:2623146 3' similar to contains MER10.t2 MER10 repetitive element;
							ha33d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3
10755	23193	36178	1.78	2.0E-18	AW470791.1	EST_HUMAN	THR repetitive element;
72777			_	•		1	xg47e09.xt NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2630728 3' similar to contains MER8.b2
11451	42722	30806			AW151299.1	TOT THOMAN	MENO reportive element;
1001			70.7	Z.VE-10	_	NGMOL TOU	The state of the little of the state of the
4	16983		1.01	1.0E-18	T95406.1	EST HUMAN	yes goost socres level liver sprear in the Society and the second contains to contain the second second second to contain the second se
5611	18199	30565	3.05	1.0E-18	AV653405.1	EST_HUMAN	AV653405 GLC Homo saplens cDNA clone GLCDKE113'
5835	18415	31085	2.69	1.0E-18	D00099.1	TN	Homo sapiens mRNA for Na,K-ATPase alpha-subunit, complete cds
5835			2.69		D00099.1	NT	Homo sapiens mRNA for Na,K-ATPase alpha-subunit, complete ods
6797	19340	32111	1.47	1.0E-18	AL163280.2	IN⊤	Hamo sapiens chromosame 21 segment HS21C080
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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression: Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8958	21391	34303	0.99	1.0E-18	AI148288.1	EST_HUMAN	oz69d08.xt Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1680593 3' similar to contains L1.tf L1 repetitive element;
6966	72371	35319	3.01	1.0E-18	U91328.1	ħ	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
11841	24092	30992	2.53	1.0E-18	AF003529.1	TN	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
562	13134	25546	4.33	9.0E-19	AA281961.1	EST_HUMAN	zt1406.r1 NCI_CGAP_GCB1 Homo sepiens cDNA clone IMAGE:712811 5' similar to contains MER19.t2 MER19 repetitive element :
563	13134	25546	3.6	9.0E-19		EST HUMAN	zt1d06.rl NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.t2 MER19 repetitive element;
8527	L					EST HUMAN	HSC23F051 normalized Infant brain cDNA Homo saplens cDNA clone c-23f05
9127	L	34465	2.82	9.0E-19	AL163203.2	F	Homo capiens chromosome 21 segment HS21C003
9127	21559	34466		9.0E-19	AL163203.2	E	Homo sapiens chromosome 21 segment HS21C003
10908	23338	36344		9.0E-19	AB032969.1	Z	Homo sapiens mRNA for KIAA1143 protein, partial cds
11591	13134	25546	12.69	9.0E-19	AA281861.1	EST HUMAN	zt1406.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.t2 MER19 repetitive element ;
1074	13820		1.4	8.0E-19	AW974902.1	EST_HUMAN	EST387007 MAGE resequences, MAGN Homo sapiens cDNA
4429	16950		1.05	8.0E-19	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
8735	21169	34074	1.15	8.0E-19	BE158936.1	EST_HUMAN	MR0-HT0404-210200-001-g06 HT0404 Homo saplens cDNA
2154	14687	27180	1.12	7.0E-19	4758139 NT	, <u>IN</u>	Homo sapiens DEAD/H (Asp-Glu-Ala-AspíHis) box polypeptide 6 (RNA helicasa, 54kD) (DDX6) mRNA
6189	18342		2.08	7.0E-19	AF092090.1	Ŋ	Rattus norvegicus cp161 mRNA, partial cds
7761	20205	33067	1.03	L	P28444	SWISSPROT	BETA CRYSTALLIN A2
11738	24958		2.98	7.0E-19	AA705684.1	EST_HUMAN	zi60b01.s1 Scares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:435145 3'
3780	16318		1.44		AW852930.1	EST_HUMAN	PMo-CT0248-131099-001-g01 CT0248 Homo saplens cDNA
4486	17013		1.61			SWISSPROT	OLFACTORY RECEPTOR 6 (M50)
4495	17013	29398	1.61	6.0E-19		SWISSPROT	OLFACTORY RECEPTOR 6 (M50)
4855	17367	i	1.14	6.0E-19	AJ271735.1	TN	Homo sapiens Xq pseudoautosomal region; segment 1/2
							ZONA PELLUCIDA SPERM-BINDING PROTEIN B PRECURSOR (ZONA PELLUCIDA GLYCOPROTEIN
6145					200183	SWISSPROT	ZP-X) (RC55)
6534		31827	0.59		AW663302.1	EST_HUMAN	hir77b06.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2988787 51
8484			0.6		AL163209.2	TN	Homo seplens chromosome 21 segment HS21C009
10320	22720	35688	0.88	5.0E-19) AJ297699.1	INT	Homo saplens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exon 14

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11292	23667	36703	7.05		5.0E-19 AW183725.1	EST_HUMAN	x/87b02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2664171 3' similar to contains element MSR1 repetitive element;
571		1	43.52			NT	Homo sapians mRNA, chromosome 1 specific transcript KIAA0501
2624			99:6		4.0E-19 BF697362.1	EST_HUMAN	602130910F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4287674 5'
5652	18238	30637	1.15			IN	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
4302	L	L			-	SWISSPROT	LIM-ONLY PROTEIN 6 (TRIPLE LIM DOMAIN PROTEIN 6)
4302	16827	29216	1.43		3.0E-19 O43900	SWISSPROT	LIM-ONLY PROTEIN 6 (TRIPLE LIM DOMAIN PROTEIN 6)
4477	16997		4.1		3.0E-19 AV708136.1	EST_HUMAN	AV708138 ADC Homo sapiens cDNA clone ADCAMA11 5'
5531	18121		29.0			NT	Homo sapiens NPD008 protein (NPD008) mRNA, complete cds
	<u>L</u>		100			į	Homo sapiens similar to aldo-keto reductase family 1, member B11 (aldose reductase-like) (H. sapiens)
7860	20299	33851	1 27		3.0E-19 1143ZZ14 NI	2 2	M.musoulus mRNA for TPCR33 protein
11088	L		18.00			TN	Homo saplens phorbolin I protein (PBI) mRNA, complete cds
2473	1_	27488			163201.2	L	Homo saplens chromosome 21 segment HS21C001
	L				Γ		qo91e02.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1915898 3' similar to TR:Q69386 Q69386
4478	ļ		1.05		2.0E-19 Al311783.1	EST_HUMAN	POLENV GENE;
6360	18918	31653	1.04		2.0E-19 AV731382.1	EST_HUMAN	AV731382 HTF Homo seplens cDNA clone HTFAZC06 5'
7805	l _	33107			7657286 NT	N	Mus musculus keratin-associated protein 6-1 (Krtap6-1), mRNA
8875	L				AA012854.1	EST_HUMAN	ze34c09.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360880 5'
9376	l		78.0		Q95155	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN OLF2
489	13073		1.86	1.0E-19B	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
2670	15163		1.21		D38044.1	TN	Human gene for Ah-receptor, exon 7-9
2803	3 15360		6,43	1.0E-19	4758977 NT	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
	1.						aj49612.s1 Soares_testis_NHT Homo saplens oDNA clone IMAGE:1393631 3' similar to contains MER37.2
3379	15925	28341	1.29		1.0E-19 AA834967.1	EST HUMAN	WERST repeative element;
200	404.70				Alsonses 4	EOT LINAN	wm91b08x1 NCI_CGAP_UZ Homo sapiens cDNA clone IMAGE:2443287 3' similar to TR:Q16530 Q16530 DASS MDNA ·
PACC	1	ı	0.02	١	Noangon.	EST DOWN	Transfer of the state of the st
6382	18939	31676		1.0E-19	012186.1	LN.	Oryctolagus cuniculus sogium/dicarboxylaie cotransporter microx, parual cas
-			1		A A EO EE O 27 4	1464 F.00	INIZZGUSST NCC CGAP TT Tiomo sapiens curva Gore Introck. Bosues sumities to commits first ki
6259	- 1	1			• •	ESI HOMAN	ispanive sistient,
8159	- 1				~1	L'N	Oryctolagus cuniculus Na+/glucose cotransporter-related protein mKNA, complete cas
8159	- 1	33461		1		N-	Oryctolagus cuniculus Na+/glucose cotransporter-related protein mRNA, complete cds
8372	2 24648		0.75	1.0E-19	AF200719.1	LN.	Homo saplens pituitary tumor transforming gene protein (P11G) gene, complete cos

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8963	21396	34308	1.99	1.0E-19 M	64657.1	L	Rabbit phosphorylase kinase beta subunit mRNA, complete cds
9168	21600		3.07	1.0E-19 T	T99920.1	EST HUMAN	ye/2b02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123243 5' similar to contains OFR repetitive element:
10168	22569	35535	22.59	1.0E-19	1.0E-19 AW812259.1	EST HUMAN	RC0-ST0174-191099-031-b05 ST0174 Homo sapiens cDNA
10175		35544	1.63			EST_HUMAN	yy31e09.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:272872 6
7010		32331	2.52	8.0E-20	7657286	K	Mus musculus karatin-associated protein 9-1 (Krtap9-1), mRNA
7010		32332	2.52		7657286 NT	Z,	Mus musculus keratin-associated protein 9-1 (Krtap9-1), mRNA
8024			1.39			EST_HUMAN	qg8df09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1842089.3'
8024			1.39			EST_HUMAN	qg86f09.xf Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1842089 3'
3238		28208	0.78		7.0E-20 BF326455.1	EST_HUMAN	PM4-AN0098-050900-003-e04 AN0096 Homo sapiens cDNA
7413			7.12	7.0E-20		EST_HUMAN	DKFZp547D092_r1 547 (synonym: hfbr1) Hamo seplens cDNA clane DKFZp547D092 5
8402	20816	33714	0.41	7.0E-20		NT	Homo saplens WRN (WRN) gene, complete cds
8999	21432	34341	10.42		7.0E-20 AA557657.1	EST HUMAN	nI46c04.s1 NCI_CGAP_Pr4 Homo saplens cDNA clone IMAGE:1043718 similar to contains MER29.b2 MER29 repetitive element:
8000	24432	CPEPE	C7 U1			1444	nI46c04.s1 NCI_CGAP_Pr4 Homo saplens cDNA clone IMAGE:1043718 similar to contains MER29.b2
11438			1.63		6912633	TOWN TO LEG	Homo saniens rifosomal protein 1 (3a (RDI 434) mRNA
3541		28502	3.64	l	P39/88	SWISSPROT	ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY
4289	16814				ĺ	EST HUMAN	601441231F1 NIH MGC 72 Homo septens cDNA clone IMAGE:3916231 5
7654	20004	32848	1.25		5.0E-20 AF075301.1	EST HUMAN	AF075301 Human fetal liver cDNA library Homo saplens cDNA done HA0250
8595	21030	33932	6.17	6.0E-20 W	180525.1	EST_HUMAN	zh78d08.s1 Soares, fetal Jiver, spleen, 1NFLS_S1 Homo sapiens cDNA cione IMAGE:418191 3' similar to contains MER30.t1 MER30 repetitive element;
8595		33933	5.17	6.0E-20	5.0E-20 W90525.1	FST HUMAN	zh78d08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA cione IMAGE:418191 3' similar to contains MER30 11 MER30 repetitive element
8705	21140		0.91		-	EST HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo septens cDNA
9239		34581	1.38			F	Mus musculus MMAN-g mRNA, complete cds
9239	21671	34582	1.38	5.0E-20	74.1	¥	Mus musculus MMAN-g mRNA, complete cds
9650	20941		1.13	6.0E-20		SWISSPROT	HYPOTHETICAL PROTEIN DJ845024.1
. 5917	18495		0.92	4.0E-20		SWISSPROT	HISTONE H2B C (H2B/C)
8580	21015		5.79	4.0E-20		EST_HUMAN	tz64g03.x1 NCI_CGAP_Ov35 Homo sapiens cDNA clone IMAGE:2293396 3'
10374	22774		1.64	4.0E-20	1	EST_HUMAN	QV3-DT0043-090200-080-c04 DT0043 Hamo sapiens cDNA
4224	16749	29140	1.32	3.0E-20		SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN 1/4
4668	17184	29562	0.87	3.0E-20	3.0E-20 AA037616.1	EST HUMAN	zk36b12.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:484895 3' similar to contains L1.t3 L1 repetitive element:

Probe							
SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Тф Hit Descriptor
9298	3 21730		2.7	3.0E-20 D	14547.1	M	Human DNA, SINE repetitive element
44.085		. 8886	77.0	4 0C 30 8	284244 4	HE HIMAN	qj70d02.x1 NCI_CGAP_Kid3 Home saplens cDNA clone IMAGE:1864803 3' similar to contains Alu repetitive element:
	1		1	2.00	- Control	, Table 1	oi70d02.x1 NCI CGAP Kid3 Hano sapiens cDNA clone IMAGE:1884803 3' similar to contains Atu repetitive
11265	23631	36681	2.74	3.0E-20	-	EST_HUMAN	element
11754	L				3.0E-20 BE888422.1	EST_HUMAN	601614180F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3916522 5'
853	L		7.61		_	EST HUMAN	xz24e10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2761098 3' similar to SW:RSE_MOUSE P97461 40S RIBOSOMAL PROTEIN S5.;
1138	l	26121	2.67	2.0E-20	A516335.1	EST HUMAN	ng89h08.s1 NCI_CGAP_LIp2 Homo sapiens cDNA dane IMAGE:940097 similar to TR:G1224066 G1224068 ORF2: FUNCTION UNKNOWN.;
1138	<u> </u>			2.0E-20		EST HUMAN	nge9h09.s1 NCI_CGAP_LIp2 Homo saplens cDNA done IMAGE:940097 similar to TR:G1224066 G1224068 ORF2: FUNCTION UNKNOWN.
2776		ĺ			_	EST HUMAN	xx24e10.x1 NCI_CGAP_Ut4 Homo sapiens oDNA clone IMAGE:2761098 3' similar to SW:RS5_MOUSE P97461 40S RIBOSOMAL PROTEIN S5.
502		29911			128983	SWISSPROT	ZONADHESIN PRECURSOR
5029	17539		4.95	ŀ	28983	SWISSPROT	ZONADHESIN PRECURSOR
531	17819		1.26		5174538	L	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1) mRNA
8716		34058			A309457.1	EST_HUMAN	EST180326 Liver III Homo saplens dDNA 6' end
9468			0.89		10083.1	NT	Homo sapiens RGH1 gene, retrovirus-Ilke element
9468	8 21899	34822		2.0E-20	10083.1	IN	Homo sapiens RGH1 gene, retrovirus-like element
12164	4 24668	30769	1.63		H55371.1	EST_HUMAN	CHR220310 Chromosome 22 exan Homo sapiens cDNA clane C22_391 5
1952	15266	28975	3.15		1.0E-20 AA281961.1	EST HUMAN	zt1d06.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.t2 MER19 repetitive element ;
							hr84b08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3135155 3' similar to contains L1.t2 L1
4468			1.18			EST_HUMAN	repetitive element;
5278	8 17779	30145	3.27	1.0E-20	Q95156	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN OLF2
730		32616			AF0495	67.1 EST_HUMAN	AF049567 Human activated dendritic cell mRNA Homo saplens cDNA clone GA05
9448	8 21879		2.62	1.0E-20		L	Homo saplens Autosomal Highly Conserved Protein (AHCP), mRNA
 							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively
11308	8 23671	36720	1.73	1.0E-20	AF223391.1	ΝΤ	spliced
					,		nc60g08.r1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:745694 similar to contains L1.t3 L1
11890	Т		3.93	1	<u>`\</u>	EST HUMAN	repetitive element;
2867	7 15422		1.01		-	EST_HUMAN	AJ003514 Selected chromosome 21 cDNA library Homo saplens cDNA clone MPIp112-8J21
1159			3.38	9.0E-21	AW898189.1	EST_HUMAN	RC3-NN0068-090500-021-b03 NN0068 Homo saplens cDNA

Table 4 Single Exon Probes Expressed in Lung

Top Hit Acession								
21654 1.28 8.0E-21 AW674891.1 EST_HUMAN 23656 36704 7.88 8.0E-21 AA809411.1 EST_HUMAN 24046 27017 1.46 7.0E-21 P15800 SWISSPROT 14509 27017 1.46 7.0E-21 P15800 SWISSPROT 16239 28646 0.71 7.0E-21 P15800 SWISSPROT 16790 27017 1.46 7.0E-21 P15800 SWISSPROT 16790 27017 1.67 7.0E-21 P15800 SWISSPROT 16700 27017 7.0E-21 AL163300.2 NT NT 21550 34455 6.87 7.0E-21 AL277567.1 NT 22553 35443 0.97 7.0E-21 AL277567.1 NT 15650 28036 1.14 6.0E-21 BE408811.1 EST_HUMAN 15650 28045 6.57 7.0E-21 BE60838.1 EST_HUMAN 17369 25942 1.23 5.0E-21	SEQ II			Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
23658 36704 7.88 8.0E-21 CA809411.1 EST_HUMAN 24046 2.35 8.0E-21 C21330 SWISSPROT 14509 27017 1.46 7.0E-21 P15800 SWISSPROT 14509 27018 1.46 7.0E-21 P15800 SWISSPROT 16239 28645 0.71 7.0E-21 AA046502.1 EST_HUMAN 18316 32083 0.76 7.0E-21 AL163218.2 NT 21550 34456 6.87 7.0E-21 AL163218.2 NT 21550 34456 6.87 7.0E-21 AL163218.2 NT 21650 28033 1.14 6.0E-21 BA185622.1 NT 16850 28033 1.14 6.0E-21 BA186822.1 RST_HUMAN 16860 28033 1.14 6.0E-21 BA186822.1 EST_HUMAN 18943 32777 1.23 6.0E-21 AW44084.1 EST_HUMAN 18943 32777 1.23 6.0E-21	922			1.28	8.0E-21	AW674891.1		bb3De02.yf NIH_MGC_10 Homo septens cDNA clone IMAGE:2884714 6' stmiler to SW:NIAM_HUMAN 096169 NADH-UBIQUINONE OXIDOREDUCTASE ASHI SUBUNIT PRECURSOR;
24046 2.36 8.0E-21 O21330 SWISSPROT 14509 27017 1.46 7.0E-21 P15800 SWISSPROT 14509 27017 1.46 7.0E-21 P15800 SWISSPROT 16239 28646 0.71 7.0E-21 AL163300.2 NT 16786 22701 1.51 7.0E-21 AL163218.2 NT 21366 34456 6.87 7.0E-21 AL277557.1 NT 21650 34456 6.87 7.0E-21 AL277557.1 NT 21650 24950 0.97 7.0E-21 AL277557.1 NT 16965 28030 1.14 6.0E-21 AW856922.1 EST_HUMAN 16966 28030 1.39 5.0E-21 AW856922.1 EST_HUMAN 16967 2.91 5.0E-21 AW856922.1 EST_HUMAN 16967 2.92 5.0E-21 AW866805.1 EST_HUMAN 18678 2.87 1.12 4.0E-21 AA389574.1 EST_HUMAN	1126				8.0E-21	AA809411.1	EST_HUMAN	ob71f08.s1 NCI_CGAP_GCB1 Hamo saplens cDNA clone IMAGE:1338835 3'
14509 27017 1.46 7.0E-21 P15800 SWISSPROT 14509 27018 1.46 7.0E-21 P15800 SWISSPROT 16239 28646 0.71 7.0E-21 AL183300.2 NT 16780 32083 0.78 7.0E-21 AL163218.2 NT 21366 34456 6.87 7.0E-21 AL277557.1 NT 21650 34456 6.87 7.0E-21 AL277557.1 NT 22528 35463 0.97 7.0E-21 AL277557.1 NT 16950 28036 1.14 6.0E-21 BE408611.1 EST_HUMAN 16965 28036 1.39 5.0E-21 AW856922.1 EST_HUMAN 17369 25942 1.39 5.0E-21 AW856923.1 EST_HUMAN 17369 25942 1.29 5.0E-21 AW856923.1 EST_HUMAN 1857 1.26 5.0E-21 AW440864.1 EST_HUMAN 19780 2.29 5.0E-21 AA359574.1	1176	1		2.35	8.0E-21	021330	SWISSPROT	ATP SYNTHASE A CHAIN (PROTEIN 8)
14509 27018 1.46 7.0E-21 AL163300.2 NT 16239 28646 0.71 7.0E-21 AL163300.2 NT 16786 6.22 7.0E-21 AL163300.2 NT 16786 6.22 7.0E-21 AA046502.1 EST_HUMAN 21356 34270 1.61 7.0E-21 AA046502.1 NT 21356 34459 0.78 7.0E-21 AA046502.1 NT 22526 35493 0.87 7.0E-21 AA046502.1 NT 16806 28039 0.87 7.0E-21 AA08602.1 EST_HUMAN 16806 28045 0.87 7.0E-21 BE40881.1 EST_HUMAN 16806 22040 1.39 5.0E-21 BE60839.1 EST_HUMAN 17369 28750 2.9 5.0E-21 BE60839.1 EST_HUMAN 19857 1.23 5.0E-21 BE66839.1 EST_HUMAN 19780 2877 1.24 5.0E-21 AV440864.1 EST_HUMAN 19780 2874 1.64 5.0E-21 AA3363574.1 EST_HUMAN 19780 3.2890	195				7.0E-21	P15800	SWISSPROT	LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ) (LAMININ CHAIN B3)
16239 28646 0.71 7.0E-21 AL163300.2 NT 16786 6.22 7.0E-21 AA046502.1 EST_HUMAN 21356 34270 1.61 7.0E-21 AL163218.2 NT 21356 34270 1.61 7.0E-21 AL163218.2 NT 22528 34456 6.87 7.0E-21 D14718.1 NT 22528 23648 0.87 7.0E-21 BE408812.1 EST_HUMAN 13499 22692 1.36 5.0E-21 BE60839.1 EST_HUMAN 13499 226942 1.29 5.0E-21 BE60839.1 EST_HUMAN 13499 226942 1.29 5.0E-21 BE60839.1 EST_HUMAN 19857 0.9 5.0E-21 BE60839.1 EST_HUMAN 19867 28770 0.9 5.0E-21 AV440864.1 EST_HUMAN 19780 22674 1.23 5.0E-21 AV440864.1 EST_HUMAN 19780 22674 1.14 4.0E-21 AA3363574.1 EST_HUMAN 19780 22670 1.23 0.0E-21 AA363507.1 NT 16858 <td><u>3</u></td> <td></td> <td></td> <td></td> <td>7.0E-21</td> <td></td> <td>SWISSPROT</td> <td>LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ) (LAMININ CHAIN B3)</td>	<u>3</u>				7.0E-21		SWISSPROT	LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ) (LAMININ CHAIN B3)
19796 6 22 7.0E-21 AA046502.1 EST_HUMAN 21356 34270 1.51 7.0E-21 AL183218.2 NT 21356 34270 1.51 7.0E-21 AL183218.2 NT 21560 34456 6.87 7.0E-21 D14718.1 NT 22528 35493 0.97 7.0E-21 D14718.1 ST_HUMAN 13490 25942 1.34 6.0E-21 BE408813.1 EST_HUMAN 13499 25942 1.39 5.0E-21 BE698839.1 EST_HUMAN 13499 25942 1.3 6.0E-21 BE698839.1 EST_HUMAN 18967 29750 5.0E-21 BE698839.1 EST_HUMAN 19857 0.9 6.0E-21 AV440864.1 EST_HUMAN 19867 3.2777 1.23 6.0E-21 AV440864.1 EST_HUMAN 19780 3.2590 2.81 4.0E-21 AA930713.1 EST_HUMAN 19780 3.2590 2.81 4.0E-21 AA930713.1 EST_HUMAN 16586 2.8740 1.12 4.0E-21 AA9307713.1 EST_HUMAN 16586	365	L				AL163300.2	L	Homo saplens chromosome 21 segment HS21C100
18316 32083 0.78 7.0E-21 AL163218.2 NT 21356 34270 1.51 7.0E-21 AL163218.2 NT 21560 34455 6.87 7.0E-21 AW856922.1 EST_HUMAN 22528 35493 0.97 7.0E-21 BE40881.1 EST_HUMAN 16506 22900 2.9 5.0E-21 BE60883.1 EST_HUMAN 16906 22920 1.39 5.0E-21 BE60883.1 EST_HUMAN 16906 22920 1.39 5.0E-21 BE60883.1 EST_HUMAN 16906 29750 5.51 5.0E-21 AW440864.1 EST_HUMAN 16943 32777 1.23 6.0E-21 AW440864.1 EST_HUMAN 19780 28777 1.24 6.0E-21 AW440864.1 EST_HUMAN 19780 3.2590 2.81 4.0E-21 AM383574.1 EST_HUMAN 19780 3.2590 2.81 4.0E-21 AM383574.1 EST_HUMAN 16586 23079 1.28 3.0E-21 AM38357.1 NT 18542 30798 0.76 3.0E-21 AM277557.1	42			6.22		AA046502.1	EST_HUMAN	zk67a08.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5
21356 34270 1.61 7.0E-21 AJ277557.1 NT 21560 34455 6.87 7.0E-21 AW856922.1 EST_HUMAN 22528 35493 0.97 7.0E-21 AW856922.1 EST_HUMAN 13499 23942 1.14 6.0E-21 BE408813.1 EST_HUMAN 16906 22200 2.3 5.0E-21 BE968839.1 EST_HUMAN 16906 22200 2.3 5.0E-21 BE968839.1 NT 17369 29750 5.0E-21 BE968839.1 NT 17369 29750 6.0E-21 AR85474.1 NT 19857 1.23 6.0E-21 AW440864.1 EST_HUMAN 19780 3.2590 2.81 4.0E-21 AA9363574.1 EST_HUMAN 19780 3.2590 2.81 4.0E-21 AA9363574.1 EST_HUMAN 16586 27700 1.28 3.0E-21 AL163201.2 NT 16586 28007 3.0E-21 AA9777557.1 NT	67,	Н				AL163218.2	L	Homo saplans chromosome 21 segment HS21CO18
21650 34455 6.87 7.0E-21 D14718.1 NT 22626 35493 0.97 7.0E-21 AW856922.1 EST_HUMAN 16850 22624 1.34 6.0E-21 BE408811.1 EST_HUMAN 13499 25942 1.39 5.0E-21 BE968839.1 EST_HUMAN 13499 25942 1.39 5.0E-21 BE968839.1 EST_HUMAN 13499 259740 1.6 5.0E-21 BE968839.1 EST_HUMAN 17369 25975 6.0E-21 BE968606.1 EST_HUMAN 18967 0.9 6.0E-21 AW440864.1 EST_HUMAN 23089 1.64 5.0E-21 AA40864.1 EST_HUMAN 19780 2.81 4.0E-21 AA970713.1 EST_HUMAN 1656 2.8740 1.12 4.0E-21 AA970713.1 EST_HUMAN 1658 2.8700 1.26 3.0E-21 AL163201.2 NT 1658 2.8700 1.26 3.0E-21 AL163201.2 NT 1658 0.76 3.0E-21 AJ277557.1 NT 1658 0.76 3.0E-21 AJ277557.1	892				7.0E-21		- LV	Homo sapiens dNT-2 gene for mitochandrial 6(3')-decayribonucleotidase (dNT-2 gene), exons 1-6
22528 35493 0.97 7.0E-21 AW856922.1 EST_HUMAN 13499 29036 1.14 6.0E-21 BE408911.1 EST_HUMAN 13499 29242 1.39 5.0E-21 BE902031 NT EST_HUMAN 13499 29242 1.39 5.0E-21 BE902031 NT EST_HUMAN 13499 25942 1.5 5.0E-21 BE902031 NT EST_HUMAN 17369 25976 6.0E-21 BE902031 NT EST_HUMAN 19857 1.23 6.0E-21 BE902031 NT EST_HUMAN 23989 1.64 6.0E-21 BE90205.1 EST_HUMAN 14265 26740 1.12 4.0E-21 AA907713.1 EST_HUMAN 14780 32590 2.81 4.0E-21 AA907713.1 EST_HUMAN 1658 27209 1.26 3.0E-21 AL163201.2 NT 1658 27209 1.26 3.0E-21 AJ277557.1 NT 1658 0.76 3.0E-21 AJ277557.1 NT 1658 0.78 3.0E-21 AJ277557.1 NT 16747 2.61 3.0E-21 BF99093.1 <td>٩</td> <td>ı</td> <td></td> <td></td> <td>7.0E-21</td> <td>D14718.1</td> <td>Z</td> <td>Human chromosomal protein HMG1 related gene</td>	٩	ı			7.0E-21	D14718.1	Z	Human chromosomal protein HMG1 related gene
16650 29036 1.14 6.0E-21 BE408811.1 EST_HUMAN 13499 25942 1.39 5.0E-21 BE902031 NT 15606 29290 2.9 5.0E-21 BE902031 NT 17369 25942 1 6.0E-21 BE902031 NT 17369 25976 5.01 5.0E-21 BE902031 NT 19857 0.9 6.0E-21 BE96474 NT 19867 3.2777 1.23 6.0E-21 AW440864.1 EST_HUMAN 23989 1.64 6.0E-21 AW440864.1 EST_HUMAN 14265 26740 1.12 4.0E-21 AA930374.1 EST_HUMAN 14780 3.2590 2.81 4.0E-21 AA930374.1 EST_HUMAN 14886 27209 1.28 3.0E-21 AL163201.2 NT 16586 28007 3.0E-21 AJ277557.1 NT 18342 30789 0.76 3.0E-21 AJ277557.1 NT	101,	١_	<u> </u>		7.0E-21	AW 856922.1		RC0-CT0301-271199-031-F03 CT0301 Homo saplens cDNA
13499 25942 1.39 5.0E-21 6902031 NT 15499 29290 2.9 5.0E-21 BE968839.1 EST_HUMAN 13499 25942 1 6.0E-21 BE968839.1 EST_HUMAN 17369 29750 6.51 6.0E-21 A885474 NT 19857 0.9 6.0E-21 A885474 NT 19943 32777 1.23 6.0E-21 AW440864.1 EST_HUMAN 23989 1.64 6.0E-21 AM940874.1 EST_HUMAN 14265 26740 1.12 4.0E-21 AA930874.1 EST_HUMAN 14780 3.2590 2.81 4.0E-21 AA970773.1 EST_HUMAN 16586 27209 1.28 3.0E-21 AL163201.2 NT 16586 23078 0.76 3.0E-21 AJ277557.1 NT 18548 0.78 3.0E-21 AJ277557.1 NT 19047 2.51 3.0E-21 BY7661044.1 EST_HUMAN 19705 3.2594 <td>41,</td> <td>L</td> <td></td> <td></td> <td>6.0E-21</td> <td>Γ</td> <td>EST_HUMAN</td> <td>801304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5</td>	41,	L			6.0E-21	Γ	EST_HUMAN	801304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5
16906 29200 2.9 5.0E-21 BE968839.1 EST_HUMAN 13499 25942 1 6.0E-21 BE968839.1 EST_HUMAN 17369 29760 6.51 6.0E-21 AW440864.1 EST_HUMAN 19843 32777 1.23 6.0E-21 BE86605.1 EST_HUMAN 23989 1.64 6.0E-21 AA38374.1 EST_HUMAN 14265 26740 1.12 4.0E-21 AA383574.1 EST_HUMAN 14780 32590 2.81 4.0E-21 AA383574.1 EST_HUMAN 16586 27209 1.28 3.0E-21 AL163201.2 NT 16586 3.0E-21 AL163201.2 NT 18342 30798 0.76 3.0E-21 AJ277557.1 NT 18588 0.78 3.0E-21 AJ277557.1 NT 18047 2.61 3.0E-21 BY991033.1 EST_HUMAN 19705 3.0E-21 BY991093.1 EST_HUMAN 19705 3.0E-21 BY961044.1 EST_HUMAN 19705 3.0E-21 BY981093.1 EST_HUMAN 19705 3.0E-21 BY991093.1 EST_HUMAN	g				5.0E-21		NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
13499 25942 1 6.0E-21 602031 NT 17369 29750 6.51 6.0E-21 4885474 NT 19843 32777 1.23 6.0E-21 AW440864.1 EST_HUMAN 23989 1.64 6.0E-21 AR386557.1 EST_HUMAN 14265 26740 1.12 4.0E-21 AR380377.1 EST_HUMAN 14780 3.2590 2.81 4.0E-21 AR370713.1 EST_HUMAN 16586 28007 3.0E-21 AL163201.2 NT 16586 3.0F-21 AL163201.2 NT 18342 30798 0.76 3.0E-21 AJ277557.1 NT 18588 0.78 3.0E-21 AJ277557.1 NT 18047 2.61 3.0E-21 AJ277557.1 NT 18705 3.0E-21 AJ277557.1 NT 187047 2.61 3.0E-21 BY361043.1 EST_HUMAN 18705 3.0E-21 BY361044.1 EST_HUMAN <t< td=""><td><u>\$</u></td><td><u>L</u></td><td></td><td></td><td>5.0E-21</td><td>BE968839.1</td><td>EST_HUMAN</td><td>601649871F1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933880 5</td></t<>	<u>\$</u>	<u>L</u>			5.0E-21	BE968839.1	EST_HUMAN	601649871F1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933880 5
17369 29760 6.51 5.0E-21 4885474 NT 19843 32777 1.23 6.0E-21 AW440864.1 EST_HUMAN 23989 1.64 6.0E-21 AA383574.1 EST_HUMAN 14265 26740 1.12 4.0E-21 AA383574.1 EST_HUMAN 19780 3.2590 2.81 4.0E-21 AA370713.1 EST_HUMAN 16586 27209 1.28 3.0E-21 AA370713.1 EST_HUMAN 16586 27209 1.28 3.0E-21 AL163201.2 NT 18342 30798 0.76 3.0E-21 AJ077557.1 NT 18588 0.78 3.0E-21 AJ277557.1 NT 18588 0.78 3.0E-21 AJ277557.1 NT 19047 2.51 3.0E-21 BF184739.1 EST_HUMAN 19705 3.0E-21 BF184739.1 EST_HUMAN 19705 3.0E-21 BF184739.1 EST_HUMAN 19707 3.0E-21 BF184739.1 EST_HUMAN	47.			1	6.0E-21	5902031	LN	Homo sepiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
19943 32777 0.9 6.0E-21 AW440864.1 EST_HUMAN 23089 1.64 6.0E-21 AA385574.1 EST_HUMAN 14265 26740 1.12 4.0E-21 AA930574.1 EST_HUMAN 19780 32690 2.81 4.0E-21 AA970713.1 EST_HUMAN 14886 27209 1.26 3.0E-21 AL163201.2 NT 16596 28007 3.68 3.0E-21 AL163201.2 NT 18342 30798 0.76 3.0E-21 AJ277557.1 NT 18588 0.78 3.0E-21 AV661044.1 EST_HUMAN 19047 2.61 3.0E-21 BF184739.1 EST_HUMAN 19705 3.0E-21 BF184739.1 EST_HUMAN 19705 3.0E-21 BF184739.1 EST_HUMAN 19705 3.0E-21 BF184739.1 EST_HUMAN	48				5.0E-21	4885474	NT	Homo saplens melanoma antigen, family C, 1 (MAGEC1), mRNA
19943 32777 1.23 6.0E-21 BE86605.1 EST_HUMAN 23089 1.64 6.0E-21 AA383574.1 EST_HUMAN 14265 28740 1.12 4.0E-21 AA970713.1 EST_HUMAN 19780 3.2560 2.81 4.0E-21 AA970713.1 EST_HUMAN 14886 27208 1.26 3.0E-21 AL163201.2 NT 16588 2.8007 3.68 3.0E-21 AL007073.1 NT 18342 30798 0.76 3.0E-21 AJ277557.1 NT 18588 0.78 3.0E-21 AV661044.1 EST_HUMAN 19047 2.51 3.0E-21 BF184739.1 EST_HUMAN 19705 3.2564 8.05 3.0E-21 BF184739.1 EST_HUMAN	Ė			6.0		AW 440864.1	EST_HUMAN	he05er10.x1 NCI_CGAP_CML1 Homo saplens cDNA clone IMAGE:2918154 3'
23089 1.64 5.0E-21 AA393574.1 EST_HUMAN 14256 26740 1.12 4.0E-21 AA970713.1 EST_HUMAN 19780 32590 2.81 4.0E-21 AB019576.1 NT 14886 27209 1.28 3.0E-21 AL163201.2 NT 15586 28007 3.68 3.0E-21 AL163201.2 NT 18342 30788 0.76 3.0E-21 AL277557.1 NT 18588 0.78 3.0E-21 AL277557.1 NT 18647 2.51 3.0E-21 AV681044.1 EST_HUMAN 19705 3.2564 8.05 3.0E-21 BF184739.1 EST_HUMAN	74.						EST_HUMAN	7f83d11.x1 NCI_CGAP_Pf28 Homo sapiens cDNA clone IMAGE:3303573 3' similar to contains OFR.t1 OFR repetitive element;
14256 26740 1.12 4.0E-21 AA970713.1 EST HUMAN 19780 32590 2.81 4.0E-21 AB019576.1 NT 14686 27209 1.28 3.0E-21 AL163201.2 NT 15586 28007 3.68 3.0E-21 AL163201.2 NT 18342 30798 0.76 3.0E-21 AL277557.1 NT 18588 0.78 3.0E-21 AL277557.1 NT 19047 2.61 3.0E-21 AV681044.1 EST HUMAN 19705 3.2564 8.06 3.0E-21 BF184739.1 EST HUMAN	110			1.64		AA393574.1	EST_HUMAN	272c04.r1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:727878 5'
19780 32590 2.81 4.0E-21 AB019576.1 NT 14686 27209 1.28 3.0E-21 AL163201.2 NT 15586 28007 3.68 3.0E-21 AL007973.1 NT 18342 30798 0.76 3.0E-21 AL277557.1 NT 18588 0.78 3.0E-21 AV681044.1 EST_HUMAN 19047 2.61 3.0E-21 BF184739.1 EST_HUMAN 19705 3.0E-21 BF391093.1 EST_HUMAN	17:						EST HUMAN	oo86e08.s1 NCI_CGAP_KId5 Homo saplens cDNA clone IMAGE:1573094 3' similar to TR:Q16530 Q16530 PMS3 MRNA ;contains OFR.t1 OFR repetitive element;
14686 27209 1.28 3.0E-21 AL163201.2 NT 16586 28007 3.68 3.0E-21 AL007973.1 NT 18342 30798 0.76 3.0E-21 AL277557.1 NT 18588 0.78 3.0E-21 AL277557.1 NT 19047 2.61 3.0E-21 AV681044.1 EST_HUMAN 19705 3.2504 8.05 3.0E-21 BF184739.1 EST_HUMAN	72	L			4.0E-21		۲	Rattus norvegicus mRNA for rTIM, complete cds
16586 28007 3.68 3.0E-21 AJ007973.1 NT 18342 30798 0.76 3.0E-21 AJ277557.1 NT 18342 30789 0.76 3.0E-21 AJ277557.1 NT 18588 0.78 3.0E-21 AV681044.1 EST_HUMAN 19047 2.61 3.0E-21 BF184739.1 EST_HUMAN 19705 3.2504 8.05 3.0E-21 BF391093.1 EST_HUMAN	2	L				AL163201.2	Z	Homo sapiens chromosome 21 segment HS21C001
18342 30798 0.76 3.0E-21 AJZ77557.1 NT 18342 30789 0.76 3.0E-21 AJZ77557.1 NT 18588 0.78 3.0E-21 AV661044.1 EST_HUMAN 19047 2.51 3.0E-21 BF184739.1 EST_HUMAN 19705 3.2504 8.05 3.0E-21 BF391093.1 EST_HUMAN	ଚ୍ଚ					AJ007973.1	FZ	Homo saplens LGMD2B gene
18342 30799 0.76 3.0E-21 AJ277557.1 NT 18588 0.78 3.0E-21 AV681044.1 EST_HUMAN 19047 2.51 3.0E-21 BF184739.1 EST_HUMAN 19705 3.2504 8.05 3.0E-21 BF381093.1 EST_HUMAN	57(AJZ77557.1	TN	Homo saplens dNT-2 gene for mitochondrial 5(3)-deoxyribonucleotidase (dNT-2 gene), exons 1-6
18588 0.78 3.0E-21 AV681044.1 EST_HUMAN 19047 2.61 3.0E-21 BF184739.1 EST_HUMAN 19705 3.2504 8.05 3.0E-21 BF381093.1 EST_HUMAN	. 57(TN	Homo seplens dNT-2 gene for mitochondrial 5(3)-deoxyribonucleotidase (dNT-2 gene), exons 1-5
19705 32504 8.05 3.0E-21 BF184739.1 EST_HUMAN 8.05 3.0E-21 BF381093.1 EST_HUMAN	8			0.78		AV661044.1	EST_HUMAN	AV661044 GLC Homo sepiens cDNA clone GLCGOA10 3'
19705 32504 8.05 3.0E-21 BF361093.1 EST HUMAN	9					BF184739.1	EST_HUMAN	601844465F1 NIH_MGC_54 Hamo saplens cDNA clone IMAGE:4064945 5'
	75	Ш		8.05	3.0E-21	BF361093.1	EST_HUMAN	RC1-OT0083-100800-019-g08 OT0083 Homo sapiens cDNA

Table 4
Single Exon Probes Expressed in Lung

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Top Hit Descriptor	CM1-NN0063-280400-203-h08 NN0063 Homo sepiens cDNA	Homo saplens chromosome 21 segment HS21C013	QV3-HT0458-170200-090-g12 HT0458 Homo sapiens oDNA	Homo sapiens mRNA for KIAA0397 protein, partial cds	Homo sapiens mRNA for KIAA0397 protein, partial cds	RC4-BT0311-141199-011-h06 BT0311 Hamo saplens cDNA	ZONADHESIN PRECURSOR	ZONADHESIN PRECURSOR	Is30f03.x1 NC_CGAP_pan1 Homo sepiens cDNA clone IMAGE:2230109 3' similar to TR:Q99854 Q99854 HYPOTHETICAL 51.1 KD PROTEIN ;	2697a12.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:366910 5'	2697a12.r1 Scares_fetal_heart_NbHH19W Homo septens cDNA clone IMAGE:366910 5'	zc28h02.r1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:323667 6	QV0-HT0103-091199-050-g11 HT0103 Homo saplens cDNA	AU136779 PLACE1 Homo sapiens cDNA clans PLACE1005052 5'	ht09g01.x1 NCI_CGAP_Kid13 Homo saplens cDNA clone IMAGE:3146256 3' similar to contains MER29.63	MEKZ9 repetitive element;	Homo sapiens putative 8-hydroxyguanihe DNA glycosytase gene, complete cds	Ini46c04.s1 NCI_CGAP_Pr4 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER29.b2 MER29 repetitive element;	ar88d12.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2152343 3'	DKFZp43410830_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp43410830 6'	qg47e05.xt Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838336 3' similar to gb:M64241 QM PROTEIN (HUMAN);	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	Homo sapiens chromosome Xp22 410-8	E94e03.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2296204.3' similar to TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT;	Homo sapiens chromosome 21 segment HS21C001	Homo saplens chromosome 21 segment HS21C001	AV761874 MDS Hamo sepiens cDNA clone MDSCCG05 6'	CM0-HT0179-281099-076-h05 HT0179 Homo septens cDNA	MR0-FT0144-120800-006-d06 FT0144 Homo saplens cDNA	MR0-FT0144-120800-006-d06 FT0144 Home sapiens cDNA
Top Hit Database Source	EST_HUMAN	TN	EST_HUMAN	님	N _T	EST_HUMAN	SWISSPROT	SWISSPROT	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	NT	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	NT NT	Į.	EST HUMAN	N _T	ĽN.	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	AW897760.1	AL163213.2	BE163247.1	AB007857.2	AB007857.2	BE064410.1	0.28983	0,28983	AI624582.1	AA027211.1	AA027211.1	W44483.1	BE141785.1	AU138779.1		BE350127.1	AF176815.1	AA557657.1	Al601264.1	AL079752.1	AI223104.1	5730038 NT	AF046133.1	AI702438.1	AL163201.2	AL163201.2	AV761874.1	BE144748.1	BF373321.1	BF373321.1
Most Similar (Top) Hit BLAST E Value	3.0E-21	3.0E-21	2.0E-21	2.0E-21		_	2.0E-21	2.0E-21	2.0E-21				2.0E-21	2.0E-21			2.0E-21	1.0E-21	_	1.0E-21	1.0E-21	1.0E-21	1.0E-21	9.0E-22	9.0E-22	9.0E-22			8.0E-22	8.0E-22
Expression Signal	0.95	3.12	21.81	0.79	0.79	2.71	18.89	18.89	184	0.77	0.77	0.51	5.34	3.42		2.24	50'9	1.66	3.38	2.84	5.17	1.68	1.63	3.02	0.94				0.44	0.44
ORF SEQ ID NO:		30576		25952	25953			27587			31090		34249		_			26275			32937			29346						32054
Exon SEQ ID NO:	22232	L	12755		13511	L	15070	15070	18326	L	L	L	21335			23274	24185	13823	L	19376	20083	22821	24458	16956	21505		L.,	1_	ŀΙ	19293
Probe SEQ ID NO:	9829	12292	150	828	696	1245	2573	2573	5744	5841	5841	6337	8901	9232		10840	11997	1288	1435	6835	7636	10421	12420	4438	8073	9073	10573	972	6749	6749

					0		
Probe SEQ ID 8 NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8559	20994		3.28	8.0E-22	AA046502.1	EST_HUMAN	zk67e08.r1 Soares_pregnant_uterus_NbHPU Homo sepiens cDNA done IMAGE:487858 5'
884	13248	25663	7.05	7.0E-22	AL163246.2	NT	Homo saplens chromosome 21 segment HS21C046
4300	16825		2.84	7.05-22	Q61838	SWISSPROT	ALPHA-2-MACROGLOBULIN PRECURSOR (ALPHA2M)
5145	17649	30015	0.94	7.0E-22	AB008681.1	NT	Homo seplens gene for activin receptor type IIB, complete cds
9129	21561		1.31	7.0E-22	AF161054.1	NT	Homo sepiens HSPC220 mRNA, complete cds
9238	21670		2.27	7.0E-22	M78590.1	EST_HUMAN	EST00738 Fetal brain, Stratagene (cat#808206) Homo sapiens cDNA clone HFBCF07
9766	22169	35101	2.18	7.0E-22	AF009660.1	NT	Homo sepiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
4074	16605		3.07	6.0E-22	AA405040.1	EST_HUMAN	zu65d10.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:742867 5"
8809	21243		222	6.0E-22	AW029123.1	EST_HUMAN	wx05g07.x1 NCI_CGAP_Gas4 Homo saplens cDNA clone IMAGE:2542812.31
6867	19407		4.02	5.0E-22	AL163303.2	NT	Homo saplens chromosome 21 segment HS21C103
10254	22855	35617	3.99	5.0E-22	U60822.1	LN	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
1	20,0		3	L		Martin Hol	nas27b08.x1 NCI_CGAP_Pr28 Homo saplens cDNA clone IMAGE:3265898 3' similar to contains Atu
12247	24330		3.09	5.UE-22	Br4/0511.1	EST HOMAIN	ichanne exerierit
3636	16176		0.67	4.0E-22	AJ271735.1	N _T	Homo sapiens Xq pseudoautoscmal region; segment 1/2
							Homo saplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively
7213	19825	32640	0.45	4.0E-22	AF223391.1	LN.	spliced
7043	10825	17908	0.45	CC-30 Y	A F274301 1	F	Homo sapiens calcium charurel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
	2000				A 1400000	12	Jame serilane chemicama 21 secreant He91Cnn9
4050	22067	35038		4 OF 22	RE918030 1	EST HIMAN	ROTRESS13F1 NIH MGC 57 Home seniens CDNA clone IMAGE 4095434 5
42/24	24462			4 OF 22	AI 183200 2	LN	Homo saplens chromosome 21 segment HS21C009
							Im14h10.x1 NCI CGAP Co14 Homo septens cDNA done IMAGE 2/156611 3' similar to gb:L19593 HIGH
883	13536		1.21	3.0E-22	AI469679.1	EST_HUMAN	AFFINITY INTERLEUKIN-8 RECEPTOR B (HUMAN); contains L1.t1 L1 repetitive element;
	ł				,		widebo4x1 NCI_CGAP_Brn25 Homo septens cDNA clone IMAGE:2428839 3' similar to SW:RL21_HUMAN
2488	-1	2/200			A1859038.1	ESI HUMAN	F407/8 805 KIBUSUMAL PROTEIN LTT.
3672	16212		1.73	3.0E-22	D14718.1	Ł	Human chromosomal protein HMG1 related gene
4856	17368	29749	303	3 0F-22	A1090125 1	FST HIMAN	qb28c07.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA done IMAGE:1697580 3' similar to contains MER12.t2 MER12 repetitive element :
8801	21235				BE156813.1	EST HUMAN	0V0-HT0368-090200-099-f12 HT0368 Homo septens cDNA
8805	21239	34146				EST HUMAN	RC5-BT0707-150300-021-H10 BT0707 Hamo saplens cDNA
8888	l_				X60860.1	F	R.rattus RY2G5 mRNA for a potential ligand-binding protein
8888	1		1.17	L	X60660.1	Į.	R.rattus RY2G5 mRNA for a potential ligand-binding protein
1903	1			2.0E-22	N24942.1	EST_HUMAN	Jx/33d05.s1 Soares melanocyte 2NbHM Homo saptens cDNA clone IMAGE:267369 3'
3398	15944	4 28356	4.23		8394043 NT	NT	Homo sepiens protein kinase, AMP-activated, gamma 3 non-catalytic subunit (PRKAG3), mRNA

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	Top Hit Descriptor	PM1-ST0262-261189-001-d12 ST0282 Homo saplens cDNA	2220701.rf Soares_senescent_fibroblests_NbHSF Homo septens cDNA clone tMAGE:322873 6' similar to gb:X72308 MONOCYTE CHEMOTACTIC PROTEIN 3 PRECURSOR (HUMAN);	RC0-TN0079-150900-025-h12 TN0079 Homo saplens cDNA	qi76h06.xf Soares_NhHMPu_S1 Homa sapiens cDNA clone IMAGE:1878299 3' similar to contains MER29.t3 MER29 repetitive element ;	Homo saplans chromosome 21 segment HS210080	PM4-SN0020-010400-009-h02 SN0020 Homo saplens cDNA	Human familial Atzheimer's disease (STM2) gene, complete cds	Human DNA; SINE repetitive element	MR0-BT0659-220200-002-h07 BT0659 Homo sapiens cDNA	IL2-UM0076-070400-061-F11 UM0076 Homo sapiens cDNA	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	HA2340 Human fetal liver cDNA library Homo saplens cDNA	HA2340 Human fetal liver cDNA library Homo sapiens cDNA	AV647246 GLC Homo sapiens cDNA clone GLCAW C07 3'	Homo sepiens Not56 (D. melanogaster)-like protein (NOT56L) mRNA	Rattus norvegicus RIM1B (RIm1B) mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C049	Homo sapiens TPA inducible protein mRNA, complete cds	H.seplens mRNA for autoantigen NOR-90	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3	(UBE2D3) genes, complete cds	Homo sapiens mannosidase, beta A, lysosomal (WANBA) gene, and ubiquitin-conjugating enzyme E.Z.D 3 (UBE2D3) genes, complete eds	qg59c03.x1 Soares_lestis_NHT Hamo sapiens cDNA clone IMAGE:1839460 3' similar to	SW:MV10_MOUSE P23249 PROTEIN MOV-10.;	Homo saplens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12	(MACEA12), meanoma anugen (amily A2) (MACEA12), meanoma anugen (amily A3) (wix CEA3), ceuracum	(CALT), NAD(P)H dehydrogenase-tike protein (NSDHL), and LI>	Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds	Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds	Homo sapiens chromosome 21 segment HS21C027	Homo sapiens chromosome 21 segment HS21C027
	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	Z	EST_HUMAN	TN	IN	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	Ŋ	NT TN	Ā	뒫	N		Į.	<u> </u>		EST_HUMAN		!	Ł	NT	NT	NT	NT
	Top Hit Acession No.	AW817794.1	W39456.1	BF092116.1	AI278522.1	AL163280.2	AW865517.1	U50871.1	D14547.1	BE084667.1	AW802801.1	AF198349.1	AI133716.1	Al133716.1	AV647246.1	5031952 NT	AF199333.1	AL 163249.2	AF056191.1	X56687.1		AF224669.1	AF224669 1		Al209130.1			U82671.2	AF179818.1	AF179818.1	AL163227.2	AL163227.2
	Most Similar (Top) Hit BLAST E Value	2.0E-22	2.0E-22	2.0E-22	2.0E-22	2.0E-22	1.0E-22	1.0E-22	1.0E-22	1.0E-22	9.0E-23	8.0E-23	8.0E-23	8.0E-23	7.0E-23	7.0E-23	6.0E-23	6.0E-23	6.0E-23	6.0E-23		6.0E-23	R 0F-23		6.0E-23			5.0E-23	5.0E-23	6.0E-23	3.0E-23	3.0E-23
	Expression Signal	1.64	1.1	4.09	1.1	1.67	1.03	2.23	1.42	6.0	6.78	0.7	0.43	0.43	1.89	4.07	43.5	1.02	0.44	2.55		3.17	3 17		2.51				5.04	3.23	0.91	0.91
	ORF SEQ ID NO:	29154	31405		35174				28348	33602		28516		30501		36237		29194				31005	34008		30987				31856	31856	32089	
	Exan SEQ ID NO:	16788	1	ı	22239	24449		15005	15834	20709	24497	<u> </u>	18141	L	15824	23252	L	L.		23904	L.	24006	24008	L.	24134				24611	24611	19323	19323
	Probe SEQ ID NO:	4243	6138	6491	9836	11558	1849	2504	3388	8283	12484	3560	5551	5551	3275	10816	3411	4285	7440	11547		11704	41704		11910			5701	0999	7922	6780	6780

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Тар Hit Descriptar
8522	20957	33859		١.	3.0E-23 AA130165.1	EST_HUMAN	zl35g09.r1 Soares_pregnant_uterus_NbHPU Homo sepiens cDNA clone IMAGE:503968 5' similar to · · contains MER29.t2 MER29 repetitive element ;
9512	1	34899	2.86			NT	Human endogencus retroviral element HC2
9512		34900				NT	Human endogenous retrovital element HC2
10252	22653		1.74		3.0E-23 AW897927.1	EST_HUMAN	RC3-NN0066-270400-011-h01 NN0088 Hamo saplens cDNA
685		25684	4.85		2.0E-23 AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
1170			3.4		2.0E-23 M55270.1	NT	Human matrix Gla protein (MGP) gene, complete cds
2754	15244	27757			2.0E-23 P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
2754	15244	27758	4.68		2.0E-23 P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
3348			1.32	2.0E-23 A	AI201458.1	EST_HUMAN	qs73f11.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:1943757 3' similar to TR:Q13537 Q13537 MBR37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.;
3714	16254		3.54		2.0E-23 BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo saplens cDNA
3990	<u></u>	28927			H59931.1	EST_HUMAN	yr16a02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205418 5
3990	16524			2.0E-23	H59931.1	EST_HUMAN	yr16a02.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA done IMAGE:205418 6
5131	17636	29998	0.64	2.0E-23	D14547.1	NT	Human DNA, SINE repetitive element
							Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide
8543	20978		4.61	2.0E-23	AF280107.1	Ę	4 (CYP344) and oytochrome P450 polypeptide / (CYP34/) genes, complete cas, and cytochrome P450 polypeptide 5 (CYP345) gene, partial cds
9247		34588	1.01	L	AL163303.2	FZ.	Homo sapiens chromosome 21 segment HS21C103
11687			3.82		M32658.1	٤	Human alcohol dehydrogenase gamma subunit (ADH3) gene, exon 1
12260	24357		1.95	2.0E-23	AF009660.1	IZ.	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
12392	24884	1	1.81		AU133931.1	EST_HUMAN	AU133831 OVARC1 Hamo saplens cDNA clone OVARC1000946 5'
4565		29468			-	NT	Homo sepiens chromosome 21 segment HS21C052
4818	17330		6.72	1.0E-23	AL163210.2	TN	Homo saplens chromosome 21 segment HS21C010
2098	19629	1	2.31	1.0E-23	BE378471.1	EST HUMAN	601236455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608653 5'
							zw82c08.r1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:782698 6' similar to contains PTR5.t2
8895	21329	34240	6.1	1.05-23	AA448097.1	EST_HUMAN	P.I.KD repetitive element;
569	13140		1.7	9.0E-24	AA663213.1	EST HUMAN	ab) cade. St. Stratagerie tata reuta est zuz nutile Bepratis duten dure tivrock, duze zus stitutation. TR:E19822 E19822 CA PROTEIN.;
4694	<u>L</u> _	29588			14	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN 13
4694	17210	29589	1.1	8.0E-24	P23269	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN IS
6791	Ц	4 32104			11422027 NT	INT	Homo septens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA
8486		33792	0.63			NT	Homo sepiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA
3880	16415	2	1.49	7.0E-24	AW937954.1	EST_HUMAN	QV0-DT0047-170200-122-e06 DT0047 Homo septens cDNA

Table 4
Single Exon Probes Expressed in Lung

Top Hit Descriptor	DKFZp434A2311_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434A2311 5	Macaca fuscata mRNA for Testis-Specific Protein Y (TSPY); complete cds	Homo seplens chromosome 21 segment HS21C049	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3	Homo sepiens calclum channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively soliced	AND THE POST OF THE PROPERTY O	nn31n0s.s1 NCI_CGAP_Gas1 Homo sapiens cLNA clone IMAGE:1065528 3 similar to SW;POL_MEVRN P31796 POL POLYPROTEIN;	RC3-ST0197-130100-014-06 ST0197 Homo sepiens oDNA	601078812F1 NIH_MGC_12 Homo saplens cDNA clone IMAGE:3464498 5'	Homo sepiens mRNA for KIAA1093 protein, partial cds	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)	RETROVIRUS-RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE;	ENDONUCLEASE	Human garmline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV29S1P, TCRBV19S1P, TCRBV19S1P, TCRBV19S1P, TCRBV19S1, TCRBV14S1, TCRBV3S1, TCRBV14S1, TCRBV3S1, TCRBV3S1, TCRBV3S1, TCRBV3S1, TCRBV3S2, TCRBV3S1, TCRBV3S2, TCRBV3S1, TCRBV3S1, TCRBV3S2, TCRBV3S1, TCRBV3S2, TCRBV3S1, TCRBV3S2, TCRBV3S1, TCRBV3S2, TCRBV3S1, TCRBV3S2, TCRBV3S1, TCRBV3S2, TCRBV3S1, TCRBV3S2, TCRBV3S1, TCRBV3S2, TCRBV3S	Tuman germine I -cell responded and I LABY 1/31A II, I CABY 231, 1 CABY 103 II, 1 CABY 283 II, TCRBY 1931P, TCRBY 1631, TCRBY 141, HVB relic, TCRBY 283 IP, TCRBY 34S1, TCRBY 14S1,	TCRBV3S1, TCRBV4S1A1T, TRY4, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2>	hh68c08,x1 NCI_CGAP_GU1 Homo saplens cDNA clone IMAGE:2887950 3' similar to contains MER29.b2	MER29 repetitive element ;	EST374149 MAGE resequences, MAGG Hamo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C052	601810449F1 NIH_MGC_46 Homo saplens cDNA clone IMAGE:4053386 6'	zp11f09.r1 Stratzgene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609161 51	RC3-NN0068-090500-021-b03 NN0068 Homo saptens cDNA	Homo sapiens chromosome 21 segment HS21C009	Mus musculus rha/rac-interacting citron kinase (Crik) mRNA, complete cds	AJ003536 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPtp112-5H13	DKFZp761L1712_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761L1712 5
Top Hit Database Source	EST_HUMAN	INT	된	LN	Ę			EST HUMAN	Г	Г	۲.		SWISSPROT	TN		NT		EST_HUMAN	EST_HUMAN	INT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	LN		EST_HUMAN
Top Hit Acession No.	4L039498.1	4B001421.1	AL163249.2	4,1229043.1	A Egyppool 4	11260091.1	AA594178.1	AW813711.1		AB029016.1	M20707.1		P11369	U66061.1		U66061.1		AW614871.1	AW962076.1	AL163262.2	BF127762.1	AA167539.1	AW898189.1	AL163209.2	AF086824.1	AJ003536.1	AL119158.1
Most Similar (Top) Hit BLAST E Value	7.0E-24	6.0E-24	6.0E-24		F OE 24		4.0E-24	-		_	4.0E-24		3.0E-24	3.0E-24		3.0E-24			3.0E-24	3.0E-24	3.0E-24	2.0E-24	2.0E-24	2.0E-24	2.0E-24	2.0E-24	2.0E-24
Expression Signal	1.01	2.98	11.18	8.84	4 27	17.	2.89	1.2	1.85	3.54	4.85		2.57	0.84		0.84		2.87	0.84	4.06	1.64	3.39	1.16	0.62	66.0	0.49	2.84
ORF SEQ ID NO:			25862	28923	COCC		31500				30768		30246	32571		32572				34944		27270			33280		34510
Exan SEQ ID NO:	17834	13287	13417	16519	L_	20121	18792	Ł	<u> </u>	L.	24867	<u>.</u>	17888	19784		19764	_	21381	21419	22014	24298	14750	18339	24991	20410		21599
Probe SEQ ID NO:	5335	726	861	3984	3	2 2	6227	9123	10954	12090	12280		5391	7516		7516		8948	8986	9667	12178	2241	3802	7831	7974	7979	9167

Table 4
Single Exon Probes Expressed in Lung

			j		·B		
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9197	21629		1.05		H69214.1	EST_HUMAN	y92b09.r1 Sogres fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212729 5' similar to contains MER28 repetitive element;
8833	22336	35283	1.01	2.0E-24	AI521759.1	EST_HUMAN	ti77a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008 3'
9933	22335	35284	1.01	2.0E-24	AI521759.1	EST_HUMAN	477a09.x1 NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE:2138008 3'
12005			88.88	2.0E-24	M28877.1	NT	Human O family dispersed repeat element
1694	14223	26703	2.42	1.0E-24	TV06340 NT	NT	Homo sapiens CGI-127 protein (LOC51648), mRNA
2812	15107		7.62	1.0E-24	AW820194.1	EST_HUMAN	QV0-ST0294-100400-185-c10 ST0294 Homo sapiens cDNA
2980	15535	27852	0.93	1.0E-24	D86423.1	NT	Mus musculus mRNA for HGT keratin, partial cds
4287	16812		1.9	1.0E-24	AF143313.1	IN	Homo sapiens PTEN (PTEN) gene, exon 2
6739	19284	32045	1.75	1.0E-24	7106336 NT	NT	Mus musculus keratin complex-1, gene C29 (Krt1-c29), mRNA
8062	20493	33371	6.12	1.0E-24	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
8279	20696	33587	6.0	1.0E-24	BE144526.1	EST_HUMAN	MR0-HT0166-271199-005-d09 HT0168 Homo sapiens cDNA
8594	21029		1.96	1.0E-24	AW901164.1	EST_HUMAN	CMD-NN1010-130300-281-d07 NN1010 Homo saptens cDNA
6826	19367	32144			11420402 NT		Homo sapiens helicase-like protein NHL (LOC51750), mRNA
							ne92e10.s1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:911754 similar to contains MER1.b2
5096	17608	29969	2.8	7.0E-26	AA483944.1	EST_HUMAN	MER1 repetitive element;
							ne06a09.s1 NCI_CGAP_Co3 Hamo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR
8783	21227	34134	5.33	7.0E-25	AA468646.1	EST_HUMAN	repetitive element;
11427	23788	36840	3.72	7.05-25	AA583540 1	EST HUMAN	int25h06.s1 NCL_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914843 similar to SW:R14A_YEAST P35105 PROBABLE 60S RIBOSOMAL PROTEIN L14EA.:
7409	丄				W87623.1	EST HUMAN	zh65h07.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416989 5'
8269	_	33579			7305360	Ę	Mus musculus otogelin (Otog), mRNA
11081	23506	36537	1.66	6.0E-26	AW979107.1	EST_HUMAN	EST391217 MAGE resequences, MAGP Homo saplens cDNA
1476	14008	26474	2.34	4.0E-25	T98107.1	EST_HUMAN	ye56h04.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:121783 5'
3380	15926		3.05	4.0E-25	AW887671.1	EST_HUMAN	PM3-OT0093-280200-001-g07 OT0093 Homo saplens cDNA
3915	18450	28857	1.22	4.0E-25	AF000368.1	NT	Rattus norvegicus voltage-gated sodium channel mRNA, complete cds
4339	16861		4.22	_	BE170957.1	EST_HUMAN	QV3-HT0543-140400-149-e11 HT0543 Homo saplens cDNA
2090	14604	27121			BE068922.1	EST_HUMAN	RC6-BT0377-131299-031-F02 BT0377 Homo seplens cDNA
3287		28254	3.99			NT	Homo septens hypothetical protein FLJ20344 (FLJ20344), mRNA
3287	15836	28255	3.99	3.0E-25	8923321 NT	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
4960	17471		0.71	3.0E-25	P29622	SWISSPROT	KALLISTATIN PRECURSOR (KALLIKREIN INHIBITOR) (PROTEASE INHIBITOR 4)
6063	18635	31329	0.61	3.0E-25	U53212.1	TN	Human degenerin channel MDEG mRNA, partial cds
6973	19510	32291	0.59	3.0E-25	AA603590.1	EST HUMAN	Inp27b02.s1 NCI_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:1117515 3' similar to gb:M61866 ZINC FINGER PROTEIN 86 (HUMAN);
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Probe SEQ ID SE NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
	21314	34225	4.23	3.0E-26	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1379	13914	26370	4.74	2.0E-25	5032158 NT	NT	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
	14713	27235	7.45	2.0E-25	BE888016.1	EST_HUMAN	601511530F1 NIH_MGC_71 Homo sapiens oDNA clone IMAGE:3913087 5
L	14955	27469		2.0E-25		SWISSPROT	40S RIBOSOMAL PROTEIN S18
	16731	29120	2.12	2.0E-25	P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
	16731	29121		2.0E-25	P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
8877	22280	35220	0.93	2.0E-25	AL449573.1	EST_HUMAN	AL449573 Hamo saplens Testis (Stavrides GS) Homo sapiens cDNA
379	12986	25386	0.8	1.0E-25	AL040229.1	EST_HUMAN	DKFZp434H0313_r1 434 (synonym: htes3) Homo saptens cDNA clone DKFZp434H0313 5'
1281	13817		1.35	1.0E-25		NT	Human endogenous retrovirus, complete gename
L	14840	27355	2.19	1.0E-25		SWISSPROT	ATP SYNTHASE LIPID-BINDING PROTEIN P2 PRECURSOR (ATPASE PROTEIN 9) (SUBUNIT C)
<u>L</u>	17429	29802	2.89	1.0E-25	BE162737.1	EST_HUMAN	PM1-HT0454-080100-002-h09 HT0454 Homo saplens cDNA
 							zq45b08.s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clane IMAGE:632627 3' similar to
	19459				-	EST_HUMAN	contains Alu repetitive element;
	24629	32722			AA582690.1	EST_HUMAN	nn54h11.s1 NCI_CGAP_Kld6 Homo sapiens cDNA clane IMAGE:1087749 3'
8229	20648	33540	0.58	1.0E-25	Q9UL58	SWISSPROT	ZINC FINGER PROTEIN 216 (BWSCR2 ASSOCIATED ZINC-FINGER PROTEIN BAZ2)
-							z/96g04.s1 Soares_fetal_heart_NbHH19W Homo saplens cDNA clone IMAGE:384822 3' similar to contains
8571	21008	33906	4.09	1.0E-25	AA709079.1	EST_HUMAN	PTK5 (3 PTK5 repetitive element;
						ı	Homo sapiens MAGE-82 (MAGE-82), MAGE-83 (MAGE-83), MAGE-84 (MAGE-84), and MAGE-81
10750	23188					NT	(MAGE-B1) genes, complete cds
11701	24004	36563	2.03			N	Human DNA, SINE repetitive element
11701	24004	36564	2.03	1.0E-25		TN	Human DNA, SINE repetitive element
12560	24544		1.3	1.0E-25	X51755.1	LN	Human lambda-Immunoglobulin constant region complex (germline)
2383	14887	27408	1.41	9.0E-26	AL163218.2	TN.	Homo saplens chromosome 21 segment HS21C018
11559	24688		2.15	9.0E-26	AL163285,2	Ā	Homo sapiens chromosome 21 segment HS21C085
6480	17975	30319				NT	Rattus norvegicus synaptotagmin Interacting protein 1 (STIP1), mRNA
5964	18540		1.78	8.0E-26	D14647.1	INT	Human DNA, SINE repetitive element
\mid							Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
1594	14126	26591	1.65	7.0E-26	AF003528.1	F	regions
3994	16528	28932	1.46		X89211.1	NT	H.saplens DNA for endogenous retroviral like element
4176	18703	29091	2.16	7.0E-26	AW340153.1	EST_HUMAN	hd02e12.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2908366 3'
9069	18484	31166	0.71	7.0E-26	AL163202.2	TN	Homo sepiens chromosome 21 segment HS21C002
11403	23764		7.72	7.0E-26	AA116895.1	EST HUMAN	2730d08.r1 Stratagene neuroepithelium NT2RAMI 937234 Homo sapiens cDNA clone IMAGE:548943 6' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
12310	24388		204			EST HUMAN	EST368629 MAGE resequences, MAGC Homo sepiens cDNA

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2131	14844	27168	1.63	6.0E-26	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypshrogen gene families
3319	15866	28285	76.0	6.0E-26	AA206131.1	EST_HUMAN	zq52h04.r1 Stratagene neuroepithelium (#537231) Homo sapiens cDNA clone IMAGE:645271 5'
1208	13749	28194	1.64	5.0E-26	Al708235.1	EST_HUMAN	as38h08.x1 Barstead aorta HPLRB6 Horno sapiens cDNA clone IMAGE:2319519 3' similar to WP:F49C12.11 CE03371 ;
1208	١ .				AI708235.1	EST HUMAN	as38h08.x1 Berstaad aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319519 3' similar to WP:F49C12.11 CE03371 ;
9629					7667670 NT	TN	Homo saplens upstream binding transcription factor, RNA polymerase I (UBTF), mRNA
10454	<u>l</u>	35884	4.26	4.0E-26	BE266187.1	EST_HUMAN	601191346F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535210 6
1966	14484		3.89	3.0E-26	AA115895.1	EST_HUMAN	zn30d08.r1 Stratagene neuroepithelium NT2RAMI 937234 Homo sepiens oDNA clone IMAGE:548943 5' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
3776	16317	28717	1.3	3.0E-26	AA152464.1	EST_HUMAN	2630f10.r1 Stratagene colon (#637204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G695374 G695374 THYROID RECEPTOR INTERACTOR;
3778	16317	28718	1.3	3.0E-26	AA152484.1	EST_HUMAN	2030f10.r1 Stratagene colon (#937204) Homo saplens cDNA clone IMAGE::588427 5' similar to TR:G695374 G695374 THYROID RECEPTOR INTERACTOR;
7319	19731		3.81		BF245458.1	EST_HUMAN	601864963F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:4083278 5
11351	23715	38774	3.84	3.05-28		EST HUMAN	m37d05.s1 NCI_CGAP_GC5 Homo sapiens cDNA clone IMAGE:1086057.3' similar to contains OFR.t1 OFR repetitive element:
70				1_		Į.	Homo seplens chromosome 21 segment HS21C082
1838	L_				AL038099.2	EST HUMAN	DKFZp568L171_s1 568 (synonym: hfkd2) Homo sapiens cDNA olone DKFZp566L171 3'
3180	15743	28165	5.5		X86694.1	N.	M.musculus mRNA for astrocytic phosphoprotein, PEA-15
10992	23421		3.79	2.0E-28	AI801412.1	EST HUMAN	te89a01.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2185416.3' similar to contains Alu repetitive element; contains element MER20 MER20 repetitive element;
11171	<u> </u>	L		2.0E-26	AF055066.1	NT.	Homo sapiens MHC class 1 region
11816	3 24073		2.12		AB037859.1	TN	Homo saplens mRNA for KIAA1438 protein, partial cds
12026	3 24873	30571	1.19	2.0E-26	11435947 NT	NT	Homo saplens chromosome 12 open reading frame 3 (C12ORF3), mRNA
141	12747		9.83		BE170371.1	EST_HUMAN	QV4-HT0538-020300-123-e02 HT0538 Hamo sapiens cDNA
2476	14977				BE814995.1	EST_HUMAN	WR2-BN0114-240500-030-g07 BN0114 Homo saplens cDNA
2634	4 15129		4.33	1.0E-26	AF261085.1	NT	Homo sepiens glyceraldehyde-3-phosphate dehydrogenase (GADPH) mRNA, complete cds
7234	19846	3	2.64		BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Hamo sapiens cDNA
12076	8 24953	3	2.76	1.0E-28	H55093.1	EST_HUMAN	CHR220032 Chromosome 22 exon Homo sapiens cDNA clone C22_455'
8102	20528	3	1.08	9.0E-27	BF371227.1	EST_HUMAN	RCG-FN0138-110800-022-A02 FN0138 Homo capiens cDNA
9554	4 22117		4.65	9.0E-27	U93163.1	F	Homo sepiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), WAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
	L						

Table 4
Single Exon Probes Expressed in Lung

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Probe SEO ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11459	23818		2.17	9.0E-27	BE207127.1	EST_HUMAN	ba11e04.y1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:2824062 5'
11562	23912		9.0	9.0E-27	BF445556.1	EST HUMAN	naa03c07.x1 NCI_CGAP_Pr28 Homo seplens cDNA clone IMAGE:3253644 3' shnilar to contains OFR.t1 OFR repetitive element :
			!				W49c04.xf NCI_CGAP_Lu19 Homo sepiens cDNA clone IMAGE:2408150 3' similar to contains THR.b2
	⊥	71002	3.17		AIB31462.1	EST HUMAN	Ink repetitive element;
5/4	13145		4.44	8.0E-27	AL163227.2	LN.	Homo captens chromosome 21 segment HS21C027
1447	13979	26438	14.36	8.0E-27	AW162737.1	EST_HUMAN	au87h08.x1 Schneider fetel brein 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN);
1447	13979	26439	14.36	8.0E-27	AW162737.1	EST HUMAN	au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:IK00558 TUBULIN ALPHA-1 CHAIN (HUMAN);
2076		27109	2.2	_	AW864776.1	EST_HUMAN	PMZ-SN0018-220300-002-e07 SN0018 Hamo sapiens cDNA
3142	15695	28114	1.98	8.0E-27	P12236	SWISSPROT	ADP,ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
3326	15873	28295	0.71	8.0E-27	AF181897.1	. FR	Homo saplens WRN (WRN) gene, complete cds
2962	18541	31228	0.78	8.0E-27	AV732214.1	EST_HUMAN	AV732214 HTF Homo sepiens cDNA done HTFBCB06 5'
7385	18064		2.5		BE926560.1	EST_HUMAN	MR4-BT0398-250800-204-d06 BT0398 Homo sapiens cDNA
7477	19881	32477	2.46	8.0E-27	N84970.1	EST HUMAN	1/171F Humen fetal heart, Lambda ZAP Express Homo sapiens cDNA clone 1/1751 5' similar to REPETITIVE ELEMENT L1
9482	21913	34838	1.73	8.0E-27	AW857579.1	EST HUMAN	CM1-CT0315-091299-063-d07 CT0315 Hamo saplens cDNA
9482	21913	34837	1.73	8.0E-27	AW857579.1	EST_HUMAN	CM1-CT0315-091289-063-407 CT0315 Hamo saplens cDNA
703	13265		1.18	7.0E-27	Z70664.1	FX	Human endogenous retroviral element HC2
5225	17777		. 2.58	7.05-27	AW629172.1	EST_HUMAN	hi51h12x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clane IMAGE:2976879 3' similar to TR:076040 O76040 ORF2: FUNCTION UNKNOWN.;
6458	17953	EOEOE	7.96	7.0E-27	5032158 NT	۲N	Homo sapiens transducifi (beta)-like 1 (TBL1) mRNA
5458		30304	7.95	7.0E-27	5032158 NT	TN	Homo saplens transducin (beta)-like 1 (TBL1) mRNA
6381		31675	0.61		X65747.1	NT	R.norvegivus gnat-3 mRNA for gustducin
9259	21691		1	7.0E-27		TN	Human mRNA for KIAA0231 gene, partial cds
10531	22978		4.8	7.0E-27	AJ271735.1	TN	Homo saplens Xq pseudoautosomal region; segment 1/2
12228	24337		2.04	7.0E-27	1	EST_HUMAN	AV723365 HTB Homo sepiens cDNA clone HTBAHE02 5
10511		35940	4.55	6.0E-27	M26697.1	NT	Human nucleolar protein (B23) mRNA, complete cds
8338	20751		· 0.7	6.0E-27	AL163303.2	NT	Hamo sapiens chromosame 21 segment HS21C103
10203	1		3.38	5.0E-27	BF666614.1	EST_HUMAN	602121491F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:4278527 6'
10203	1		3.38		1.1	T_HUMAN	602121491F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:4278527 5'
2278	14787	27307	1.02	4.0E-27	D25303.1	NT	Human mRNA for Integrin eipha subunit, complete cds

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal		Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7124	19857	32462	1.84	4.0E-27	9910569 NT	T	Mus musculus sperm tall associated protein (Stap), mRNA
8591	21028		0.92	4.0E-27	AL163209.2	NT	Homo saplens chromosome 21 segment HS21C009
8621	21056		1.25	4.0E-27	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
1972	14490	26999	3.17			NT	R.rattus RYA3 mRNA for a potential ligand-binding protein
4288	16813		1.73	3.0E-27	BE071924.1	EST_HUMAN	PM0-BT0527-090100-001-d11 BT0527 Homo sapiens cDNA
2600	18188	30553	7.66	3.0E-27	AA077705.1	EST HUMAN	7844008 Chromosome 7 Fetal Brain dDNA Library Homo saplens cDNA clone 7844008
8380	Ш		0.56	3.0E-27	BE670351.1	EST_HUMAN	7e33f02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284283 3'
9558		35047	4.36	3.0E-27	BF035327.1	EST_HUMAN	601458531F1.NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882086 5'
43	12683	25055	14.02	2.0E-27	AF054187.1	INT	Homo sapiens alpha NAC mRNA, complete cds
1858	14380		22.35	2.0E-27	AA565345.1	EST_HUMAN	nko1b10.s1 NCI_CGAP_P171 Homo sepiens cDNA clone IMAGE:1000699 similar to gb:M17686 60S ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN);
3070	15624		12.87	2.05-27		EST HIMAN	hi61h12x1 Soares_NFL_T_GBC_S1 Home expiens cDNA done IMAGE:2975879 3' similar to TR:O76040 O76040 ORF2 FUNCTION UNKNOWN:
	L				T		
3183	15736	28155	1.24	2.0E-27	AF111167.2	NT	Homo sapiens fun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
3183	15736	28166	1.24	2.0E-27	AF111167.2	Ä	Homo sapiens jun dimerization protein gane, partial cds; cfos gene, complete cds; and unknown gene
7045	19579	32372	0.78	2.0E-27	H02855.1	EST HUMAN	y36e01.r1 Sogres placenta Nb2HP Homo saplens cDNA clone IMAGE:150840 6' similar to SP:HMGC_MOUSE Q02591 HOMEOBOX PROTEIN;
8698	21131	34032	1.09	_	AI866347.1	EST_HUMAN	wt28g07.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2426268 3'
							nh08h05.s1 NCL CGAP_Thy1 Homo sepiens cDNA clone IMAGE:943737 similar to contains L1.t3 L1
10062	22463	35418	1.18	2.0E-27	M78590.1	EST HUMAN	Pepeluwe denient; EST00738 Febai brain, Stratagene (cat#836206) Homo sapiens cDNA clone HFBCF07
10062	L				M78590.1	EST_HUMAN	EST00738 Fetal brain, Stratagane (cat#936208) Homo sapiens cDNA clone HFBCF07
10734	23172	36155	2.07	2.0E-27	AU121685.1	EST HUMAN	AU121685 MAMIMA1 Homo sapiens cDNA clone MAMIMA1000748 5
11242	14380		6.64	2.0E-27	AA565345.1	EST HUMAN	nk01b10.s1 NCI_CGAP_P11 Homo septens cDNA clone IMAGE:1000699 similar to gb:M17886 60S ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN);
453			1.37		Ī	Σ	Homo saplens chromosome 21 segment HS210046
L							Homo seplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,
1023	13574	26016	1.46	1.0E-27	AB026898.1	NT	complete cds)
4007	16828		1 03	1 05-27	BE360407.4	EST LIMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo saplens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER20 repetitive element
6892	J	32211	8.14		5855		Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
7274	1				F30158.1	EST HUMAN	HSPD20481 HM3 Homo saplens cDNA clone s4000095C10

	Top Hit Database Source	EST_HUMAN HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10		T_HUMAN RG-BT0627-140200-011-E08 BT0827 Homo saplens cDNA			hw17c11x1 NCI_CGAP_Lu24 Homo sepiens oDNA clone IMAGE:3183188 3' similar to TR:Q07314 Q07314 EST_HUMAN SECRETED NEUREXIN III-ALPHA-C PRECURSOR. [3] TR:Q07280 TR:Q07313 ;	EST_HUMAN AU126260 NTZRP1 Homo sepiens cDNA clone NTZRP1000443 5	EST_HUMAN CM2-TN0140-070900-372-g01 TN0140 Homo saplens cDNA	au83h08.xt Schnekter fetal brein 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to EST_HUMAN TR:060302 060302 KIAA0555 PROTEIN, contains element MER22 repetitive element;	EST HUMAN AU142750 Y79AA1 Homo sapiens cDNA clone Y79AA1000824 5		T_HUMAN		Homo sapiens mRNA for KIAA0868 protein, complete cds	Homo saplens zinc finger protein ZNF191 (ZNF191) gene, complete cds	ea60e03.1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:825340 5' similar to contains Alu	Т	EST HUMAN THR repetitive element;	EST_HUMAN y89f10_r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:146443 5'	xx33c09.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2695504 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95.;	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA	T_HUMAN		Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families		qf66/10.x1 Soares_testis_NHT Home septens cDNA clone IMAGE:1755019 3' similar to gb:M19503 LINE-1	EST HOMAN (SEVENOE LYANGONIN 140E HOWICEOG (HOMAN)
, 	Top Hit Acession No.	F30158.1 ES1	AB007923.1 NT	BE079780.1 EST		AF111093.1 NT	BE348399.1 EST		BF377859.1 EST	AW167671.1 EST	AU142750.1 EST	11417866 NT	AV735348.1 ES	AB020673.1 NT	AB020673.1 NT	AF016052.1 NT	4 4 50 4 562 4 ES'		Al921003.1 ES	R79762.1 ES	6.1	5316	BE409100.1 ES	Al198941.1 ES	AF029308.1 NT			
	Most Similar (Top) Hit BLAST E Value	1.0E-27 F	1.0E-27		_	1.0E-27	9.0E-28	_	9.0E-28	8.0E-28		7.0E-28		6.0E-28	6.0E-28	6.0E-28	R OF 28		6.0E-28	5.0E-28	4.0E-28				4.0E-28	4.0E-28		
	Expression Signal	1.58	76.0	1.21	2.76	4.38	2.44	2.68	3.98	222	15.71	2.11	2.5	1.43	1.43	127	r.		2.33	1.45	1.58	0.8	3.27	2.07	274	11.33	7 03	?
	ORF SEQ ID NO:	32589	34419		35189	36851		25336			26198	36402		29013						28952	27571			33097			23007	
	Exan SEQ ID NO:	19779	ı	ı	22253	23780	12760		23967	24789		L	L_	16624	16624	21724	24272	L	12925	16558	i		L	20237	23087			
	Probe SEQ ID NO:	7274	7208	9331	9850	11429	148	325	11644	11890	1212	10962	11601	4093	4093	9292	42270		332	4023	2556	2931	3069	7795	10647	10786	40B02	

Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1316	13851		2.53	3.0E-28	AF165382.1	LN	Homo sapiens metalloprotease-like, disintegrin-like, cysteine-rich protein 2 epsilon (ADAM22) mRNA, complete cds
5283	17784		0.95	3.0E-28	AF009660.1	NT	Homo saplens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
9235	21687	34577	2.14	3.0E-28	BF354030.1	EST_HUMAN	MR3-HT0713-280500-013-f09 HT0713 Hamo saplens aDNA
10712	L.	36133	2.5	3.0E-28	U53588.1	LN	Homo saplens MHC class 1 region
12071			3.38	3.0F-78	A1831991.1	EST HUMAN	wj88f07.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410885 3' similar to contains Alu repetitive element.contains element HGR repetitive element :
12211	L		1.22			Т	RC2-BT0842-210200-013-f03 BT0842 Homo septens cDNA
9	Ĺ	25122	8.3	2.0E-28	BE082167.1	EST HUMAN	RC1-BT0254-220300-019-c05 BT0254 Hamo saplens cDNA
1071	L		1.09	2.0E-28		L	Homo sapiens a disintegrin and metalloproteinase domatri 23 (ADAM23) mRNA
1185	L		11.65		Y11107.3	IN	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
	Ĺ.,						qo35b06.x1 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1910483 3' similar to contains L1.b2 L1
2373					Al348634.1	EST_HUMAN	repetitive element;
. 3338	15885	28308	1.06	2.0E-28	AL.163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
	ľ						hr76c03.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:3134404 3' similar to conteins LOR1.b1
6635	- [31935				EST_HUMAN	LOR1 repetitive element;
0999			2.57	2.0E-28		EST_HUMAN	601814196F1 NIH_MGC_54 Homo sepiens cDNA clone IMAGE:4048751 6
9755	22158		3.57	2.0E-28	AW972305.1	EST_HUMAN	EST384394 MAGE resequences, MAGL Homo saplens cDNA
			4	00 10 0	A 1700 400 4	Ļ	Homo sapiens mannosidase, beta A, Iysosomal (MANBA) gene, and ublquitin-conjugating enzyme E2D 3
OOSLL	1					- Z	(ODEX.D.) gares, compress the
1507					D38044.1	N.	Human gene for Ah-receptor, exon 7-9
2126						EST_HUMAN	QV1-BT0821-120900-360-b03 BT0821 Homo sapiens cDNA
2626			2.03		AF000995.1	NT	Homo sapiens ubiquitous TPR motif, Y Isoform (UTY) mRNA, alternative transcript 2, complete cds
5034	17544	29915	0.61	1.0E-28	AV732194.1	EST_HUMAN	AV732184 HTF Homo sapiens cDNA clans HTFBIH05 5'
8533	20968		2.84	1.0E-28	11429885 NT	LN	Homo saplens similar to ribosomal protein L12 (H. saplens) (LOC63091), mRNA
8646	21081		2.87	1.0E-28	TN 8922793	Į,	Homo sapiens hypothetical protein FLJ10968 (FLJ10988), mRNA
							EST179615 HCC cell line (matastasis to liver in mouse) Il Homo saplens cDNA 5' end similar to similar to
9535	21950	34873	3.91	1.0E-28	AA308744.1	EST HUMAN	retroviral LTR
8948	22351	35300	4.79	1.0E-28		LN TN	Homo sapiens gamma-glutamytransferase-like activity 1 (GGTLA1), mRNA
8948	22351	35301	4.79	1.0E-28	4758431 NT	Į.	Homo saplens gamma-glutamytransferase-like activity 1 (GGTLA1), mRNA
11606	23939		6.86	1.0E-28	AA054182.1	EST_HUMAN	2751-01.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380448 5'
12419	24671		2.76	1.0E-28	AL163247.2	TN	Homo sapiens chromosome 21 segment HS21C047
12536		30451	3.86		AW663987.1	EST_HUMAN	hi76g08.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2978286 3'
12175	24295		4.87	8.0E-29	Q00130	SWISSPROT	HYPOTHETICAL GENE 50 PROTEIN

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1619	14150	26621	76.0	7.0E-29	AW968447.1	EST_HUMAN	EST378521 MAGE resequences, MAGI Homo saplens cDNA
12591	24567			7.0E-29	7.0E-29 AJ132352.1	NT	Rattus norvegicus mRNA for 45 kDa secretory protein, partial
							wp69b01 x1 NCI_CGAP_Bm25 Homo septens cDNA done IMAGE:2466985 3' similar to TR:016475
612	13180	25584			6.0E-29 Al936748.1	EST_HUMAN	0154/3 UNIVAMED HERV-H PROJEIN COMBINS LIRV. DI LIRV repeative element,
11821	24140		5.95		6.0E-29 BE940436.1	EST_HUMAN	RC3-UT0062-210800-021-c05 UT0062 Homo saplens cDNA
12010	24189		1.71	6.0E-29	6.0E-29 BF568097.1	EST_HUMAN	602184092F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300079 5
2098	17608		1.04	6.0E-29	AL163203.2	IN	Homo saplens chromosome 21 segment HS210003
9158	21590		8.44		5.0E-29 AW887541.1	EST_HUMAN	RC3-070091-170300-011-c12
3191	15744		2.04		AI752367.1	EST_HUMAN	cn15c02.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn15c02 random
6313	18874		8:38		4.0E-29 BE164930.1	EST_HUMAN	QV1-HT0471-280300-121-e05 HT0471 Homo sapiens cDNA
9171	21603	34513	4.27	4.0E-29	4.0E-29 J04988.1	٦	Human 90 kD heat shock protein gene, complete ods
4442					AB042297.1	뉟	Homo saplens PTS gene for 6-pyruvoyltetrehydropterin synthase, complete cds
4783	<u> </u>	L	1.35		BF333236.1	EST_HUMAN	QV1-BT0821-120900-360-b03 BT0821 Homo saplens cDNA
6228	18793	31501	1.15		3.0E-29 BE314018.1	EST_HUMAN	601152657F1 NIH_MGC_19 Homo saptens cDNA clane IMAGE:3508527 5'
9160	21592	34499	2.23		D38044.1	M	Human gene for Ahreceptor, exon 7-9
0664	24086	34800	7		3 OE-20 AW909347 4	NAMI IH TER	xx17t03.x1 Sogres_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2813405.3' similar to contains Alu renetitive element contains MER19 to MER19 receitive element:
0776	20430					IN IN	Homo saniens chromosome 21 segment HS210048
4012	1		4 74	Ŀ	9 OE 20 DE3892 4	12	Human Hs IMA5 mRNA for Hs I m15 complete cds
540	1	25408			AF084869 1	Į	Homo saciens envelope protein RIC-6 (env) gene, complete cds
510	L	L			2.0E-29 AF084869.1	Ę	Homo sapiens envelope protein RIC-6 (env) gene, complete cds
2007	ŀ			ł	A Liberator 4	LI BAAN	wr65d10.x1 NCI_CGAP_Ut1 Homo sapiens CDNA clone IMAGE:2492563 3' similar to TR:015546 015546 HEDL: ENVELOPE CI YCOPROTEIN :
3	1	11007	2		Libonori.	101	wasted of NCI COAP 11st Home senions of DNA clone INACE: 2497563 3' similar to TR: 015548 015546
1555	14087	26548	7.18		2.0E-29 AI963604.1	EST HUMAN	HERV-E ENVELOPE GLYCOPROTEIN;
1735	1			l	2.0E-29 X84900.1	Ŋ	H.sapiens mRNA for laminin-5, alpha3b chain
1735	l				2.0E-29 X84900.1	NT	H.sapiens mRNA for laminin-5, alpha3b chain
4296	١.	29205	3 2.55		2.0E-29 AL163288.2	NT L	Homo sapiens chromosome 21 segment HS21C088
							os71e04.x1 NCI_CGAP_GC2 Homo sapiens cDNA clone IMAGE:16108143' similar to contains L1.t2 L1
6110	18679	31375	5 0.83	2.0E-29 A	Al082459.1	EST_HUMAN	repetitive element ;
6494	19048	31787	1.48	2.0E-29 A	AI806418.1	EST HUMAN	wf27g07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356860 3' similar to contains element MER6 repetitive element;
	L	l					

٢				٦	٦		1		1	\neg	ş —		٦	٦	٦		٦						Τ	Τ		Τ	T	Τ				
	Top Hit Descriptor	wf27g07.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:2366860 3' similar to contains element MER6 répetitive element :	601442206F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846648 5'	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens chromosome 21 segment HS210048	Homo sapiens chromosome 21 segment HS21C048	Homo saplens chromosome 21 segment HS21C048	601689834F1 NIH_MGC_20 Homo sapiens cDNA clane IMAGE:3952833 5'	Homo saptens spilcing factor similar to dnaJ (SPF31), mRNA	AV700745 GKC Hamo sapiens cDNA clane GKCALE08 3'	hi51h12.x1 Soarss_NFL_T_GBC_S1 Homo sapiens dDNA clone IMAGE:2975879 3' similar to TR:076040 076040 ORF2: FUNCTION UNKNOWN.;	RC1-HN0003-220300-021-b04 HN0003 Homo seplens cDNA	nzzoco7.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1288332 3' similar to contains MER4.b1	MER4 repetitive element;	Homo sapiens zinc/iron regulated transporter-like (ZIRTL), mRNA	HSC23F051 normalized Infant brain cDNA Homo sapiens cDNA clone o-23f05	EST97317 Thymus I Homo sapiens cDNA 5' end similar to EST containing O family repeat	PT2.1_13_B11.r tumor2 Homo saplens cDNA 3'	Human mRNA for integrin alpha subunit, complete cds	QV0-BN0147-290400-214-f12 BN0147 Homo saplens cDNA	Human lambda-immunoglobulin constant region complex (germline)	tg22g03.x1 NO_CGAP_CLL1 Homo sepiens cDNA clone IMAGE:2116276 3' similar to contains Alu	Human econitate hurretace (ACO2) dens evon 7	Homo saniers chromosome 21 segment HS21C078	DV3.DT0nd3.Dan20nn.080.c08 DT0043 Homo sablens cDNA	10/3-D70043-080200-080-c08 D70043 Homo saplens cDNA	Home earlone mRNA for KIAA0718 protein narial cds	CM1-ST0181-091199-035-f08 ST0181 Homo sepiens cDNA	and 2015 of Scarge Intel fetus NhOHER Gw Homo seniens cDNA clone IMAGE:1938920 3' similar to	contains MER29.b2 MER29 repetitive element;	Homo saplens talomerase reverse transcriptase (TERT) gene, exons 1-6	b12056t Testis 1 Homo sapiens cDNA clone b12056
	Top Hit Databese Source	EST_HUMAN	EST HUMAN	NT	NT	NT	NT	EST_HUMAN	TN	EST_HUMAN	EST HUMAN	EST_HUMAN		EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	F	EST_HUMAN	<u>5</u>		FA FA	1	EST DI MANI		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	EST HIMAN		EST_HUMAN		EST_HUMAN
	Top Hit Acession No	Al806418.1	3E867157.1	\L163248.2	AL163248.2	AL163248.2	AL163248.2	3F025947.1	11425108 NT	AV700745.1	4W629172.1	4W983880.1		AA761215.1	11422745 NT	F08688.1	AA383873.1	AI557072.1	D25303.1	BE008026.1	X51755.1		AISBBBBZ.1	A1 482078 0	AMIO27474 4					Al338551.1	AF128893.1	T18862.1
	Most Similar (Top) Hit BLAST E Value	2.0E-29	2.0E-29	2.0E-29	2.0E-29	2.0E-29	2.0E-29	2.0E-29	2.0E-29	1.0E-29	1.0E-29	1.0E-29		9.0E-30	9.0E-30	8.0E-30	8.0E-30	8.0E-30	6.0E-30	6.0E-30	6.0E-30		9.05-30	2000	02 30 7	4 OF 30	100-100	4.0E-30	201	3.0E-30		3.0E-30
	Expression Signal	1.34	1.3	2.59	2.59	3.39	3.39	1.84	2.15	0.44	0.48	5.86		3.37	2.45	12.62	2.28	4.27	1.09	2.44	4.88		43.04	20.0	4 20	1 28	200.4			284		0.57
	ORF SEQ ID NO:	31787	33956	35036	35037	35571	35572			33788	33790			32253			34169	34460					CCROZ		22005	1		l	l		28698	
	Exan SEQ ID NO:	19048	l	1	1				23601	20892	20894	İ	١_	19474	23995		21263	21658	14285	15700	18005	L	10008	1	┸	1	-	1	1	13721		20153
	Probe SEQ ID NO:	8074	8615	7698	7698	10205	10205	10736	11232	8479	8481	9208		6935	11688	6847	8829	9124	1758	3147	12561		4020	2620	200	2000	3	5 600	3070	1179	3758	7708

Probe E SEQ ID SI NO:				Mant Cimilar			
	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10327	72722	35694	_	3.05-30	BE360127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element :
L	23411	38423	2.96	3.0E-30	P34056	SWISSPROT	TRANSCRIPTION FACTOR AP-2
694	13256	25873	1.1	2.0E-30	AW857315.1	EST_HUMAN	CM0-CT0307-310100-158-h03 CT0307 Homo saplens cDNA
1111	13855		2.38	2.0E-30	F08688.1	EST_HUMAN	HSC23F051 normalized Infant brain cDNA Homo saplens cDNA clone c-23f05
1508	14040	26505	6.19			EST_HUMAN	RC5-HT0582-110400-013-H08 HT0582 Homo sapiens cDNA
2867	15160	27671	11.15			EST_HUMAN	ILZ-NT0101-280700-116-E04 NT0101 Homo saplens oDNA
<u>. </u>	15428	27847	12.24	2.0E-30	AF114156.1	NT	Homo sapiens Y-linked zinc finger protein (ZFY) gene, complete cds
3791	16328	28730	2.2	2.0E-30	AW206581.1	EST_HUMAN	UI:H-BI1-afo-o-12-0-UI:s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone.IMAGE:2722558 3'
	17342	29724			BE298945.1		601119860F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029438 6'
	17342	29725	1.82				601119860F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3028438 5'
Ι.	19670	32466	29.0	2.0E-30	BF306337.1		801893208F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138983 6
. '	21417	34330	26.0	2.0E-30	AA019103.1	EST_HUMAN	ze58c10.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363186 5
9026	21459	34368	4.99	2.0E-30	C18939.1	EST_HUMAN	C18839 Human placenta cDNA (TFujiwara) Homo saplens cDNA clone GEN-570C01 5'
9094	21526	34432	2.52	2.0E-30	BE670617.1	EST HUMAN	7637c12.x1 NCI_CGAP_Lu24 Homo sepiens cDNA done IMAGE:3284662 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR;
7000	21508	34433				EST HUMAN	7e37c12x1 NCI_CGAP_Lu24 Homo septiens cDNA clone IMAGE:3284662 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE IUBIQUINONET FLAVOPROTEIN SUBUNIT PRECURSOR;
10031	22433	Ĺ	3.61			EST HUMAN	EST383657 MAGE resequences, MAGL Homo saplens cDNA
10101	22502					FST HIMAN	has3d08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element:
300	12898	1			_	EST HUMAN	C18839 Human placenta cDNA (TFullwara) Homo sapiens cDNA clone GEN-570C01 6'
929	13128	25538	2.95	1.0E-30	AW 468897.1	EST HUMAN	hd30b04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains MER1.t3 MER1 MER1 repetitive element;
736	13297	25721			_	LN LN	Homo saplens chromosome 21 segment HS21C003
2118	14631	27154				EST_HUMAN	ac77b08.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:868599 3'
2358	14863	27383	12.04	1.0E-30	BF347728.1	EST_HUMAN	602022560F1 NCI_CGAP_Bm67 Homo saplens cDNA clone IMAGE:4157991 5'
2829	15514	27934	1.24	1.0E-30	5803091	TN	Homo sapiens methlonine aminopeptidase; eIF-2-associated p67 (MNPEP), mRNA
3015	15570		0.84	1.0E-30	AA315045.1	EST_HUMAN	EST186868 HCC cell line (matastasts to liver in mouse) II Homo sapiens cDNA 5' end
8272	20889	33581	227	1.0E-30	BF183230.1	EST HUMAN	601809932F1 NIH_MGC_18 Homo sapiens oDNA clone IMAGE:4040694 5'
LJ	24813					EST_HUMAN	CHR220532 Chromosome 22 exan Hamo sepiens cDNA clone C22_728 5
3766	16305	28705	0.98	9.0E-31	T73025.1	EST HUMAN	yc65e06.r1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:85570 5

						,	
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vafue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3766	16305	28706	0.98	9.0E-31	T73025.1	EST_HUMAN	yc65e06.r1 Stratagene liver (#937224) Homo saplens cDNA clone IMAGE:85570 5
8870	21304	34214	96:0	9.0E-31	R18214.1	EST_HUMAN	yB9b08.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:X12953 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8870	21304	34215	0.98	9.0E-31	R18214.1	EST_HUMAN	yB9b08.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:30566 5' stmilar to gb:X12953 RAS-RELATED PROTEIN RAB-2 (HUMAN);
9806	21518		1.84	9.0E-31	Z38293.1	EST_HUMAN	HSC05F032 normalized infant brain cDNA Homo sapiens cDNA clone c-05f03 3'
12586	24584	30848	1.42	9.0E-31	6755441 NT	NT	Mus musculus syndecan 4 (Sdc4), mRNA
1103	13648	26089	2.83	8.0E-31	8923389 NT	NT	Homo sapiens hypothetical protein FLJ20420 (FLJ20420), mRNA
2313	14820		8.1	8.0E-31	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
4991	17501	29876	1.1	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 15 (OR3)
4991	17501	29877	1.1	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 15 (OR3)
731	13292		1.4	7.0E-31	AA372637.1	EST_HUMAN	EST84555 Colon adenocarcinoma IV Homo sapiens cDNA 6' end
2607	15102	27619			BE326517.1	EST_HUMAN	hw05a11.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3182012.3'
2607	15102				BE326517.1	EST_HUMAN	hw05a11.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3182012.3'
8933	21367	34278		7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds
8933	21367	34279	26'0	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vascpressin receptor AVPR1A gene, promoter region and partial cds
9524	21839		1.16	7.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_Z1 Homo saplens cDNA clone IMAGE:3638310 5'
12173	24294	30939	2.95	7.0E-31	X51755.1	TN	Human lambda-immunoglobulin constant region complex (germline)
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively
3678			3.38	١		Į.	paojids
8739			4.53	6.0E-31	-	N _T	Homo sapiens MHC class 1 region
11750	24032	31017		6.0E-31		EST_HUMAN	RC5-BT0377-091299-031-D12 BT0377 Homo saplens cDNA
11888	24733			6.0E-31		EST_HUMAN	601433087F1 NIH_MGC_72 Homo saplens cDNA clone IMAGE:3918524 5'
198	12801	25217		5.0E-31	M60694.1	INT	Homo capiens type I DNA topolsomerase gene, exon 8
198	12801	25218	2.74	5.0E-31	M60694.1	N	Homo sapiens type I DNA topolsomerase gene, exon 8
							7k06f04.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:3443479 3' similar to TR:Q13537 Q13537
8929	- 1		6.0		BF056540.1	EST_HUMAN	SIMILAR TO POGO ELEMENT.; contains L1.t1 L1 repetitive element;
613	13181		4.97	4.0E-31	AJ271735.1	TN	Homo sapiens Xq pseudoautosomal region; segment 1/2
1793	14318		1.43	4.0E-31	AL16328	NT	Horno sapiens chromosome 21 segment HS21C080
2747	15237		2.4	4.0E-31	5730038 NT	NT	Homo saplens SET domain and mariner transposase fusion gene (SETMAR) mRNA
11928			1.6		AJ2301	N-I	Homo sapiens GGT1 gene, exon 1
12198			1.44		_	TN	Homo saplens KIAA0569 gene product (KIAA0569), mRNA
12331	24400		1.48	4.0E-31	AB008681.1	L'N	Homo sapiens gene for activin receptor type IIB, complete cds

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2519	15019	27534	3.91	3.0E-31	6005871 NT	NT	Homo sapiens SEO83, endoplasmic reticulum translocon component (S. cerevisiae) like (SEC63L), mRNA
7806	20248	33108	97.6	3.0E-31	4826853 NT	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8 (19kD, ASHI) (NDUFB8) mRNA
7897	L	L			11420329 N	NT	Homo saplens hypothetical protein FLJ10842 (FLJ10842), mRNA
8359					3.0E-31 AW893062.1	EST_HUMAN	CM3-NN0006-300300-132-e07 NN0006 Homo sapiens cDNA
8359					AW893062.1	EST_HUMAN	CM3-NN0006-300300-132-e07 NN0006 Homo sapiens cDNA
8746	21180		2.01		3.0E-31 AL163206.2	NT	Homo saplens chromosome 21 segment HS21C006
9752	22156	35086	6.25		3.0E-31 D14523.1	LN	Horse mRNA for fertitin L-chain, complete cds
10832	23364		3.01		3.0E-31 BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862086 5
1872	14394	26887	1.17		AW838171.1	EST_HUMAN	QV2-LT0051-260300-111-f03 LT0051 Homo saplens cDNA
2235	14744	27265	1.47		2.0E-31 AL119245.1	EST_HUMAN	DKFZp761G1513_r1 761 (synonym: hamy2) Homo saplans cDNA clone DKFZp761G1513 5'
	1						aa88111.s1 Stratagene fetal retina 937202 Homo sepiens cDNA clone IMAGE:638413 3' similar to contains
2341	14846		3.26		2.0E-31 AA458824.1	EST_HUMAN	THR.t2 THR repetitive element;
5526	18116	30473	6.0		2.0E-31 AW444496.1	EST_HUMAN	UI-H-BI3-ekb-f-09-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733833 3'
							ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3148256 3' similar to contains MER29.b3
5984	18560	31245	3.82	2.0E-31 B	BE350127.1	EST_HUMAN	MER29 repetitive element;
0300	74894		506	2 0E-34	1 777784 1	FST HIMAN	nr06f04.s1 NCI_CGAP_Co10 Homo sapiens cDNA clone IMAGE:1161065 3' similar to TR:Q13537 Q13537 MFR37 TRANSPOSABLE ELEMENT_COMPLETE CONSENSUS SEQUENCE. :
9480	L	34834				NT	Homo saplans B9 protein (B9), mRNA
9973	L				AV710948.1	EST HUMAN	AV710948 Cu Homo sapiens cDNA clone CuAALB07 6'
9973	3 22376	35325	1.1		AV710948.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone QuAALB07 6'
10095		35456	2.5		BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5
10095	5 22496	3 35457		2.0E-31	BE408611.1	EST_HUMAN	801304125F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3638310 6
11858	_	1	2.43		AF148512.1	NT	Homo sapiens hexokinase II gene, promoter region
12003	Ŀ		2.66	5 2.0E-31	Al114527.1	EST_HUMAN	HA1110 Human fetal liver cDNA library Homo saplens cDNA
	Ŀ						Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1
16			9.38			NT.	(MAGE-B1) genes, complete cds
1663	14194		5 2			SWISSEROT	OLFACTORY RECEPTOR 2C1
1663	3 14194		32	2 1.0E-31	1 095371	SWISSPROT	OLFACTORY RECEPTOR 2C1
1663	3 14194	4 26667	7	1.0E-31	1 095371.	SWISSPROT	OLFACTORY RECEPTOR 2C1
4681	17197		1.03		1 AL134376.1	EST_HUMAN	DKFZp547B235_r1 547 (synonym: hfbr1) Homo sepiens cDNA clone DKFZp547B235 5
4681	17197	7 29574	1.03	1.0E-31	1 AL 134376.1	EST HUMAN	EST_HUMAN DKFZp547B235_r1 547 (synanym: hfbr1) Hama sapiens cDNA clane DKFZp547B235 6
5544	4 18134	4 30491	1 4.27	7 1.0E-31	1 AW391679.1	EST HUMAN	MR3-ST0220-151299-028-a08_1 ST0220 Homo saplans cDNA

Supplemental Control Property	Most Similar Top Hit Acession (Top) Hit Top Hit Acession Database Signal BLAST E Source Signal Value	302 31733 1.97 1.0E-31 AF048727.1 NT Homo sapiens minisatelilite ceb1 repeat region	200	33001 1.01 1.05-31 AF 120145.1 INI	33/60 0.59 1.0E-31/BE9/2618.1 EST_HUMAN	36116 2.82 1.0E-31 A1086434.1 EST_HUMAN	373 0.96 9.0E.32 U50871.1 NT Human familial Alzheimer's disease (STMZ) gene, complete ods	538 3232 2.18 9.0E-32 AV723976.1 EST_HUMAN AV723976 HTB Homo sapiens cDNA cone HTBAAG01 6	33148 0.54 9.0E-32 L31770.1	0.98 9.0E-32 11430822	517 27028 2.77 8.0E-32 A1056770.1 EST_HUMAN oz15a09.x1 Scares_fetal_liver_spleen_INFLS_S1 Homo septens cDNA clone IMAGE:1675384 3:	30760 0.87 8.0E-32 AW997214.1 EST_HUMAN	Human chromosome 22 Innmunoglobulin V(K)I gene, part, with 5' breakpoint between orphon and neighbouring non-amplified region		27690 2.13 6.0E-32 AI478104.1 EST_HUMAN	279 1.3 6.0E-32 BE888016.1 EST_HUMAN 601611530F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3913087 6	1.36 6.0E-32,AA864653.1 EST HUMAN	26045 25.72 5.0E-32 AF116627.1 NT	2.15 4.0E-32 AL163246.2 NT	553 33428 3.4 4.0E-32 11432574 NT Homo esplens AT-binding transcription factor 1 (ATBF1), mRNA	33429 3.4 4.0E-32	25468 3.69 3.0E-32 Y17293.1 NT	015 26481 8.59 3.0E-32 AV731500.1 EST_HUMAN AV731500 HTF Homo sapiens cDNA clone HTFAKC07 5	Homo saplens myeloid/lymphold or mtxed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (ALLT4) mRNA		27840 0.8 3.0E-32 5174574 NT	030 34960 10.66 3.0E-32 AV768634.1 EST_HUMAN AV768634 BM Homo sepiens cDNA clone BMFBBH12 5'	030 34961 10.65 3.0E-32 AV768634.1 EST_HUMAN AV768634 BM Homo sepiens cDNA clone BMFBBH12 5'	36125 1.94 3.0E-32 AA777621.1 EST_HUMAN	5.24 3.0E-32 BE278086.1
		31733	1	Topos	33/60	36116		32322	33148		27028	30760									33429	25468								
	Exon SEQ ID NO:	19002		1	50808	5 23134	7 15373	19538	8 20286	4 20540	1 14517	2 18324	2 24084	1	7 15179	9 20279	_1	13605	13507	0 20553	0 20553	3 13047	3 14015	2 15417	ı	15417	5 22030	5 22030	14 23143	11 24107
	Probe SEQ ID NO:	6448		\$ 1	8440	10695	2817	7002	7846	8114	2001	5742	11832		2687	7839	12285	1059	958	8130	8130	473	1483	2862		2862	9615	9615	10704	1186

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
12259	15417	27839	3.77	3.0E-32	6174574 NT	TN	Homo sapiens myelold/lymphoid or mbæd-lineage leukemia (tithoræx (Drosophila) homolog); translocated to, 4 (MLIT4) mRNA
12269	15417	27840	3.77	3.0E-32	6174574 NT	L	Homo sapiens myelold/lymphold or mbæd-lineage leukemia (trithoræx (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
12425	24461		2.51	3.0E-32	BE279086.1	EST_HUMAN	601156285F1 NIH_MGC_Z1 Homo saplens cDNA clone IMAGE:3139701 6'
4944	Ш	29832	2.72	2.0E-32	BE296613.1	EST_HUMAN	601173631F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529159 5'
6574	19125	31867	0.82	2.0E-32	M35418.1	NT	Human cell 12-lipoxygenase mRNA, complete cds
6825	19366		7.28	2.0E-32	238133.1	LN	H.sapiens mRNA for myosin
6825	19366	32143	7.28	2.0E-32	238133.1	NT	H.sapiens mRNA for myosin
8835	21269	34176	2.51	2.0E-32	AA114294.1	EST_HUMAN	zn88c08.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:663160 5'
8835	21269	34177	2.51	2.05-32	AA114294.1	EST_HUMAN	zn88c08.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
12551	24538	30839	1.67	2.0E-32	AV736449.1	EST_HUMAN	AV736449 CB Hamo sapiens cDNA clone CBFBIA08 5
12551	24538	30840	1.67	2.0E-32	AV736449.1	EST_HUMAN	AV736449 CB Homo sapiens cDNA clone CBFBIA08 6
. 2617	15112		3.82	1.0E-32	D84430.1	TN	Homo sapians mRNA for phenyalanyi tRNA synthetase, complete cds
7486	19690	32487	6.95	1.0E-32	11439789 NT	NT	Homo saplens chromosome 11open reading frame 9 (C110RF9), mRNA
9906	21498	. 34407	3.78	1.0E-32	AA720574.1	EST HUMAN	nw21g02.s1 NCI_CGAP_GCB0 Homo saplens cDNA clone IMAGE:1241138 3' similar to contains THR.t3 THR repetitive element;
ļ. 	Ι.						hw07c05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182216 3' similar to TR:088639 O88539
3456	16000		5.11	9.0E-33	BE327112.1	EST_HUMAN	WW DOMAIN BINDING PROTEIN 11.;
						 	Homo sapiens calcium channel alpha (E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively
6/28	- 1			9.0E-33	AF223391.1	IN I	Spliced
6028	┙	34340		9.05-33	Br34/229.1	ESI HOMAN	OUZUZI 104F1 NO! CGART BITO! FIGHO SEPTEMS CDINA CIONE INVACE: 41500/U 5
10581	_		"		AL163280.2	N.	Homo sapiens chromosome 21 segment HS21 C080
8						NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
ස	12683	25080	3.2	7.0E-33	5031736 NT	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
							to 12b09.x1 NCI_CGAP_Ut2 Homo saplens cDNA clone IMAGE:2178809 3' similar to contains OFR.t1 OFR
2070		27103				EST HUMAN	repetitive element;
2584			6.23	7.0E-33	AV730056.1	EST_HUMAN	AV730056 HTF Homo saplens cDNA clone HTFAVE06 5'
3201	15763		18.52	7.0E-33	AW971307.1	EST_HUMAN	EST383386 MAGE resequences, MAGL Hamo sapiens cDNA
							Human hLRP mRNA for leukocyte common antigen-related peptide (protein-tyrosine phosphate) (EC
9306						NT	(3,1,3,48)
11014	23441	36459	2.91	7.0E-33	AW971568.1	EST_HUMAN	EST383657 MAGE resequences, MAGL Homo sapiens cDNA
11838	24080	30990	4.71	7.0E-33	AA601416.1	EST HUMAN	nor6h01.s1 NCI_CGAP_Phe1 Homo saplens cDNA clone IMAGE::1100881 3' similar to contains L1.t1 L1 repetitive element;

Probe SEQ ID · NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Dafabase Source	Top Hit Descriptor
3736	16275		1.04	6.0E-33	AL163285.2	NT	Homo saplens chromosome 21 segment HS21C085
6373	18931	31667	1.02	6.0E-33	F30631.1	EST_HUMAN	HSPD21201 HM3 Homo sepiens cDNA clone s4000107H08
6373	18931	31668	1.02	6.0E-33	F30631.1	EST_HUMAN	HSPD21201 HM3 Hamo saplens cDNA clane 84000107H08
9026	21488	34400	3.47	6.0E-33	J04038.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) gene, complete ods
9137	21569	34476	2.63	6.0E-33	11429198 NT	NT	Homo sapiens similar to RAD23 (S. cerevisiae) hamolog B (H. sapiens) (LOC83277), mRNA
10041	22443	35390	1.32	6.0E-33	LN 6095979	NT	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
10041	22443	35391	1.32	8.0E-33	TN 6095549	R	Mus musculus SRY-bax containing gene 6 (Sax6), mRNA
1760	L		1.4.1	6.0E-33	BF373515.1	EST_HUMAN	QV1-FT0169-100700-271-e02 FT0169 Homo sapiens cDNA
1861	14383	26873	1.02	5.0E-33	4507208	LN	Homo saplens spermidine synthase (SRM) mRNA
1861	14383		1.02	6.0E-33	4507208 NT	FN	Homo saplens spermidine synthase (SRM) mRNA
2172	14683		1.39	5.0E-33	AL163285.2	M	Homo saplens chromosome 21 segment HS21C085
4070	16601	28991	0.78	5.0E-33	AB014599.1	N L	Homo saplens mRNA for KIAA0699 protein, partial cds
	L						zq45b06.s1 Stratagene hNT neuron (#837233) Homo saplens cDNA clone IMAGE:832927 3' similar to
7034	19569	32358	0.54	6.0E-33		EST_HUMAN	contains Alu repetitive element;
10211	22612		16.0	5.0E-33	AW264679.1	EST_HUMAN	xq33ff1.xf NCi_CGAP_Lu28 Hamo sapiens cDNA clone IMAGE:2752461 3'
10211	22612	35578	16.0	5.0E-33	AW264679.1	EST_HUMAN	xq33f11,x1 NCI_CGAP_Lu28 Hamo saplens cDNA clone IMAGE:2752461 3'
1165	13698		2.83	4.0E-33	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
2044	14560	27072	1.41	4.0E-33	TN 28987 NT	TN	Homo sapiens RAB1, member RAS oncogene family (RAB1) mRNA
							ab51b11.r1 Stratagene lung carchoma 937218 Homo septens cDNA clone IMAGE:844317 5' similar to
2320	_1				AA626621.1	EST_HUMAN	contains Alu repetitive etement contains MER28.bZ MER28 repetitive etement;
2456		3 27471			AL163210.2	μ	Homo sapiens chromosome 21 segment HS21C010
4519	17037	٠	2.06	4.0E-33	AW283349.1	EST HUMAN	UHH-BI2-ehi-c-03-0-UI s1 NCI_CGAP_Sub4 Hamo sepiens oDNA clane IMAGE:2727149 3'
5659	18245	30643	25.01	4.0E-33	AA053053.1	EST HUMAN	271s08.r1 Stratagene colon (#637204) Homo saplens cDNA clone IMAGE:610038 6' similer to gb:X12671_ma1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
6729	19275	32036		4.0E-33		NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
6728	19275	32037	0.8	4.0E-33	8393994 NT	N	Homo saplens polymerase (DNA directed), alpha (POLA), mRNA
1118	13660		7.66		BE350127.1	EST HUMAN	ht09g01.x1 NCI_CGAP_Kld13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element ;
					_		ht09g01.x1 NCI_CGAP_Kid13 Homo saplens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
1117			11.47			EST_HUMAN	MER29 repetitive element;
2348	15335	£	7.08	3.0E-33	AV647851.1	EST HUMAN	AV647851 GLC Homo saplens cDNA clone GLCBCF09 3'
10331	22731	35697	1.02	3.0E-33	AA861510.1	EST HUMAN	ak32b12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407647 3' similar to TR:Q13579 Q13579 MARINER TRANSPOSASE ;

Table 4
Single Exon Probes Expressed in Lung

_				_			_	_		_		_	_	_	_	_	-	_	_	_	_	7			_	_	_	_	_	_
	Top Hit Descriptor	qb67g03.x1 Scares_fetal_heart_NbHH19W Homo supiens cDNA clone IMAGE:.1705204.3' similar to contains OFR.t1 OFR repetitive element;	qb67g03.xt Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone iMAGE:1705204.3' similar to contains OFR.t1 OFR repetitive element;	MR0-HT0405-160300-202-d08 HT0405 Homo sapiens cDNA	ab51g11.r1 Stratagene lung carchroma 937218 Homo saplens cDNA clone IMAGE:844388 6' similar to gb:X00734_cds1 TUBULIN BETA-5 CHAIN (HUMAN);	Homo sapians hypothetical protein SIRP-b2 (SIRP-b2), mRNA	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA	q196d01.x1 Soares_NhHMPu_S1 Homo sepiens cDNA clone IMAGE:1880161 3'	ozzido3.xt Scares fetal liver spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1675973 3' simitar to gb:M29536 TRANSLATIONAL INITIATION FACTOR 2 BETA SUBUNIT (HUMAN);	Rattus norvegicus mRNA for 45 kDa secretory protein, partial	Homo sapiens X-linked arhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat	regions	Homo saplans F-box protein FBL4 (FBL4) mRNA, complete cds	Homo saplens protein kinase C beta-II type (PRKCB1) mRNA, complete cds	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds	AV744220 CB Hamo sapiens cDNA clone CBOAAA11 5'	QV3-BN0047-230200-102-b03 BN0047 Homo sapiens cDNA	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds	we88c06.x1 NCI_CGAP_Kid11 Home sapiens cDNA clone IMAGE:2462410 3	Homo septens X-tinked anhidroitic ectodermal dysplasia protein gene (EDA), exen 2 and flanking repeat	AV727809 HTC Homo sapiens cONA clone HTCCNC12 5	Homo sepiens Xq pseudoautosomal region; segment 1/2	Homo sapiens hypothetical protein FLJ10900 (FLJ10900), mRNA	QV2-BT0258-071299-019-g07 BT0259 Homo sapiens cDNA	MR4-BT0399-200100-001-h03 BT0399 Homo sapiens cDNA	yd15e05.r1 Scares fetal liver splean 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'	1914c10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:148722 5'	Human G2 protein mRNA, partial cds	Human G2 protein mRNA, partial cds	Mus musculus DAB/2J hair-specific (hacl-1) gene
	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	N	N L	EST_HUMAN	EST_HUMAN	FZ.		TN	NT	NT	۲	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	Ę	EST HUMAN	Į.	Ę	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	NT	NT	ΤN
	Top Hit Acession No.	A 160189.1	AI160189.1	BE159039.1	AA626683.1	11421332 NT	11421332 NT	AI277492.1	A1052256.1	AJ132352.1		AF003528.1	AF199420.1	M13975.1	U60822.1	AV744220.1	AW996818.1	U60822.1	Al927191.1	AE002808 4	AV727809.1	AJ271735.1	8922751 NT	BE062570.1	BE069882.1	T70845.1	H12868.1	U10991.1	U10991.1	U03686.1
	Most Similar (Top) Hit BLAST E Value	2.0E-33	2.0E-33	2.0E-33	2.0E-33	2.0E-33	2.0E-33	2.0E-33	2.0E-33				1.0E-33	1.0E-33	1.0E-33	1.0E-33	1.0E-33	1.0E-33	1.0E-33	1 05 33	_		8.0E-34	8.0E-34	8.0E-34	7.0E-34	7.0E-34	6.0E-34		6.0E-34
	Expression Signal	0.7	2.05	4.95	5.36	2.17	2.17	1.09	2.08	12		1.31	0.51	1.14	1.43	1.66	2.41	1.99	2.29	4 48	1.0	2.7	4.11	1.48	0.69	1.74	1.71	1.62	1.62	1.81
	ORF SEQ ID NO:				29959	30098	30099	32070						33192			36544	36822			30895		27111	29436	33679	26472			25481	31007
	Exan SEQ ID NO:	12637	12837	16967	17592	17730	17730	19305	21841	24581		12628						23762	24275	12828			14592	17053	20779	14006	24133	13061		24010
	Probe SEQ ID NO:	17	108	4447	5082	5228	5228	6762	9409	12611		8	5855	7887	10050	10818	11086	11401	12144	12336	12369	12575	2078	4535	8364	1474	11909	488	488	11711

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1850	14372		1.63	5.0E-34	7706500 NT	NT	Homo saplens Npw38-binding protein Npw8P (LOC51729), mRNA
6183	17687	30047	4.49	5.0E-34	U30883.1		Human splicing factor SRp55-1 (SRp-55) mRNA, complete cds
6323	17823		1.04	5.0E-34		EST_HUMAN	zaZ7g11.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:293828 5
9263	21695	34607	1.23	6.0E-34	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10447	22898	35875	47.54	6.0E-34	AB0378		Homo sapiens mRNA for KIAA1435 protein, partial cds
1941	14460	26964	1.27	4.0E-34	A180466	7.1 EST_HUMAN	tt94c06.x1 NCI_CGAP_Pr28 Homo saplens cDNA clone IMAGE:2249194 3'
2872	15165	27875	2.95	4.0E-34			Homo saplens hypothetical protein FLJ10989 (FLJ10989), mRNA
6148	18716	31418	0.43	4.0E-34	AA8617	,	ak35c01.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1407936 3'
8368	21800	34708	1.33	4.0E-34	BF209778.1	EST_HUMAN	601874950F1 NIH_MGC_64 Homo saplens cDNA clone IMAGE:4102213 5'
6552	19104	31848	0.46	3.0E-34	M37277.1	NT	Human Ig germiline H-chain D-region genes, partial cds
10831	23383		2.3	3.0E-34	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_68 Homo sapiens cDNA clane IMAGE:3862086 5'
5169	17873	30037	3.23	2.0E-34	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21 C083
9308	21740	34647	0.83	2.0E-34		EST HUMAN	wd35g06x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 9' similar to contains MER29.t2 MER29 repetitive element ;
808	21740	34648	0.83	2.0E-34		EST HUMAN	wd35g06x1 Soares_NFL_T_GBC_S1 Homo capiens cDNA clone IMAGE:2330170 3' similar to contains MER29.12 MER29 repetitive element;
1532	14064	26525		1.0E-34		SWISSPROT	ADP ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
							Homo saplens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
3673	16213	28618	1.35	1.0E-34	AF003528.1	L L	regions
4085	16818	29004	0.86	1.0E-34	AY009397.1	NT	Homo saplens WNT3 precursor (WNT3) mRNA, complete cds
4085	16616		98.0	1.0E-34	AY009397.1	LN	Homo saplens WNT3 precursor (WNT3) mRNA, complete cds
4516	17034		66.8	1.0E-34	BE071414.1	EST_HUMAN	RC2-BT0506-240400-016-h08 BT0508 Homo saplens cDNA
5010	17520	29894	3.14	1.0E-34	BF509718.1	EST_HUMAN	ULH-BI4-apb-h-04-0-UI.s1 NCI_CGAP_Sub8 Homo saplens cDNA clone IMAGE:3086839 3'
5010	17520	29895	3.14	1.0E-34		EST_HUMAN	UFH-Bi4-apb-h-04-0-UI.s1 NCI_CGAP_Sub8 Hamo sapiens cDNA clone IMAGE:3086839 3'
6451	19007	31739	2.19	1.0E-34	BE874052.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo sepiens cDNA clone IMAGE:3886999 67
6451	19007	31740	2.19	1.0E-34	BE874052.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo septens cDNA clone IMAGE:3886999 5
. 9832	22236	35171	11.52		AL036635.1	EST_HUMAN	DKFZp664A1663_r1 564 (synchym: hfbr2) Homo septens cDNA clone DKFZp564A1663 5'
10958				1.0E-34	BE781790.1	EST HUMAN	601470592F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
10956			3.22	1.0E-34	BE7817	EST_HUMAN	801470592F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3873478 5
10970	23389	36409	1.71	1.0巨-34	11439599 NT	NT	Homo saplens nucleobindin 2 (NUCB2), mRNA
12103	24908		1.77	1.0E-34	AA807097.1	EST_HUMAN	oc31c11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA done IMAGE:1351316 3' similar to gb:X68203 TYROSINE-PROTEIN KINASE RECEPTOR FLT4 PRECURSOR (HUMAN);
12361	24452		5.01	1.0E-34		NT	Homo sapiens chromosome 21 segment HS21C010

					,		
Probe SEQ ID 8 NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3645	16185	28282	1.31	9.0E-35	9.0E-35 AW683302.1	EST_HUMAN	hh77b08.y1 NCI_CGAP_GU1 Homo saplens cDNA clone IMAGE:2988787 5'
233	12834		14.12	8.0E-35	6031190 NT	NT	Homo sapiens prohibitin (PHB) mRNA
1730	14257	26742	2.36	8.0E-35	8.0E-35 BF589937.1	EST_HUMAN	nea33a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:075912 O75912 DIACYLGLYCEROL KINASE IOTA.;
1730	14257	26743	2.36	8.0E-35	8.0E-35 BF58937.1	EST_HUMAN	naa33a08.xf NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:075912 075912 DIACYLGLYCEROL KINASE IOTA. ;
4924	17435	29810	3.12	8.0E-35	8.0E-35 BF183195.1	EST_HUMAN	601809588F1 NIH_MGC_18 Hamo sapiens cDNA clone IMAGE:4040324 6'
11829	24081		3.42	8.0E-35 B	F669282.1	EST_HUMAN	602184624T1 NIH_MGC_42 Hamo septens cDNA clone IMAGE:4300660 3'
6832	19373	32151	1.76		11425417 NT	NT	Homo captens phosphatidylinositol glycan, class L (PIGL), mRNA
1444	13978		1.27	١,	AA7571	15.1 EST_HUMAN	ah53h03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1309397 3'
1913	14432		1.89			NT	Homo sapiens zinc finger protein 208 (ZNF208), mRNA
4084	16595				1	EST_HUMAN	UI-H-BW0-ejd-d-08-0-UI.s1 NCI_CGAP_Sub6 Homo septens cDNA clone IMAGE:2731433 3'
5481	17958	30306	3.69		A190294	EST_HUMAN	QV-BT019-210199-135 BT019 Homo saplens cDNA
8560	20995	33892	4.37	6.0E-35	6006921 NT	TN	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9971	22373	35321	3.25		6.0E-35 AB037786.1	NT	Homo saplens mRNA for KIAA1365 protein, partial cds
1707	14235	26719	18.13	5.0E-35	(63392.1	NT	H,sapiens immunoglobulin kappa light chain veriable region L14
2742	15232	27745	2.85	5.0E-36	AB007866.2	IN	Homo sapiens mRNA for KIAA0408 protein, partial cds
2967	15522	27943	1.69	5.0E-35	6912639 NT	Ŋ	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
							Homo sepiens clk2 kinase (CLK2), propin1, cote1, glucocerebrosidase (GBA), and metadn genes, complete cds; metadn pseudogene and glucocerebrosidase pseudogene; and thrombospondin3 (THBS3) gene, partial
4435	16955	29344	1.9	5.0E-35	AF023268.1	닐	ede
8765	21199		3.88	5.0E-35	BE890992.1	EST_HUMAN	601431984F1 NIH_MGC_72 Home seplens oDNA clone IMAGE:3917229 5'
8785	21219	34124	2.48	5.0E-35	AI208765.1	EST_HUMAN	qg38c05.x1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1837448 3' similar to SW:Y249_HUMAN Q92539 HYPOTHETICAL PROTEIN KIAA0249.;
8785	21219	34125	2.48	5.0F-35	AI208765.1	EST HUMAN	qg38c05x1 Soares_testis_NHT Home sapiens cDNA done IMAGE:1837448 3' similar to SW:7249 HUMAN Q92539 HYPOTHETICAL PROTEIN KIAA0249.;
10952	l				1	EST HUMAN	zh84f12.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saptens cDNA done IMAGE:428015 51
1463	<u>L</u>	28461				EST_HUMAN	601109719F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3350405 5'
1794	14319	26812	7.65	4.0E-35	H91193.1	EST HUMAN	yu98a07.1 Scares fetal liver spieen 1NFLS Homo sapiens cDNA cione IMAGE:241236 6' similar to contains PTR5 repetitive element;
4863	17375		0.65	4.0E-35	AF003528.1	<u>L</u> V	Homo sepiens X-linked anhidrolitic ectodermal dysplasta protein gene (EDA), exon 2 and flanking repeat regions
5249	11		0.94			EST_HUMAN	801300705F1 NIH_MGC_21 Hamo saplens cDNA clane IMAGE:3635401 6'

Table 4 Single Exon Probes Expressed in Lung

Probe Exon ORF SEQ Expressed in DNO: NO: NO: NO: NO: NO: NO: NO: NO: NO:				-	
20100 21444 14128 14738 18182 22088 22088 15276 13759 14636 16825 16825 16825 16825 16825 16825	Expression Signal		Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
21444 14736 14736 18182 22098 22098 15276 13759 14636 16825 16825 16925 16925 16925	14.	4.0E-35	3E350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kld13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
14736 14736 18182 22098 15276 13759 14636 16825 16825 16925 16936	7.21	4.0E-35	4L046596.1	EST_HUMAN	DKFZp434L148_r1 434 (synchym; htes3) Homo sapiens cDNA clone DKFZp434L148 5
14736 18182 22098 22098 15276 13759 14636 16825 16825 16925 16925	17.6		3E268182.1		601125260F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345063 5'
18182 22098 22098 15276 13759 14836 16825 16825 16085	6.95	3.0E-35	4F224492.1		Hamo sepiens phospholipid scremblase 1 gene, complete cds
18182 22098 15276 13759 14636 16825 16825 16086	24.63	3.0E-36	BF433100.1	EST HUMAN	7n25a09.x1 NG_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7 Q9QZH7 F-BOX PROTEIN FBL2.;
16278 13759 14636 1625 16825 16086	24.63		BF433100.1	EST_HUMAN	7n25a09x1 NG_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7 Q9QZH7 F-BOX PROTEIN FBL2.;
15276 13759 14636 16825 16825 16036 16457	1.63	3.0E-35	AF223391.1	Į,	Homo sepiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
13759 14636 16825 16825 16086 16457	1,14		N88965.1	EST HUMAN	K6932F Human fetal heart, Lambda ZAP Express Homo sepiens cDNA clone K6932 5' sImilar to REPETITIVE ELEMENT
14636 16825 16825 16086	1.19	•	111909.1	EST HUMAN	A971F Heart Homo sapiens cDNA clone A971
16825 16825 16086 16457	3.09	2.0E-35	AB018413.1	LN	Homo saplens mRNA for Gab2, complete cds
16825 18086 16457	7.83	2.0E-35	6912459 NT	L	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
16086	7.83	2.0E-36	6912459 NT	L	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
16457	0.88	2.0E-35	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
	1.22	2.0E-35	BE247575.1	EST_HUMAN	TCBAP2E4328 Pediatric pre∙B cell acute lymphoblastic leukemia Baylor-HGSC project≑TCBA Homo saplens cDNA clone TCBAP4328
		_			TCBAP2E4328 Pediatric pre-B call acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo saplens
3922 16457 28865	1.22	2.0E-35	BE247575.1 H49239.1	EST HUMAN	cDNA clane 1 CDAT-4326 vg19a12.r1 Scenes fetal liver soleen 1NPLS Homo saplens cDNA clane IMAGE:274079 6'
	2.11	_	BF332417.1	EST HUMAN	QV0-BT0701-210400-199-b04 BT0701 Homo sapiens cDNA
19993	0.74		BE832636.1	EST HUMAN	CM2-MT0126-280700-297-G02 MT0126 Homo sapiens cDNA
19993	0.74	2.0E-35	BE832636.1	EST_HUMAN	CM2-MT0125-280700-297-G02 MT0125 Homo saplens cDNA
10578 23025 36009	13.88	2.0E-35	X59417.1	NT	H.sapiens PROS-27 mRNA
11577 15825 28242	1.39	2.0E-35	6912459 NT	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
11577 15825 28243	1.39	2.0E-35	6912459 NT	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
24043	1.57	2.0E-35	BE904978.1	EST_HUMAN	601496774F1 NIH_MGC_70 Homo saplens cDNA clone IMAGE:3898699 5'
	1.57		BE904978.1	EST HUMAN	601496774F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898699 51
12338 24405	7.77	2.0E-35	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
12468 15276 25140	2.51	2.0E-35	N88965.1	EST_HUMAN	K6832F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 6' similar to REPETITIVE ELEMENT

Probe	E CE	ORF SEQ	Expression	Most Similar (Top) Hit	Top Hit Acession	Top Hit	Ton Hit Descriptor
	2 0 2 0 3 0	Ö	Signal	BLAST E Value	ó		
\$	12669	26064	689	1.0E-35	AA631949.1	EST_HUMAN	finfc16 Regional genomic DNA specific cDNA library Homo saplens cDNA clone CR12-1
L	12669	25065	68.89	1.0E-35	AA631949.1	EST_HUMAN	frintc16 Regional genomic DNA specific cDNA library Homo saplens cDNA clone CR12-1
L	13333	25765	201.61	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131099-006-d12 ST0162 Homo sapiens cDNA
	13333	26766	201.61	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131099-006-d12 ST0162 Homo sapiens cDNA
033	13486		1.58	1 0F-35	T87947 1	EST HUMAN	yd93a01.r1 Soares fetal Iiver spieen 1NFLS Homo sapiens cDNA clone IMAGE:115752 6' similar to SP:A44282 A44282 RETROVIRUS-RELATED POL POLYPROTEIN - HUMAN ;
L	14954	27468	9.31	1.0E-35	7705894	NT	Homo sapiens hypothetical protein (LOC5/233), mRNA
	4 F 2 4 B	27730	2 4 2	4 OF 25	BE950497 4	HOT HIMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sepiens cDNA clone IMAGE:3146286 3' similar to contains MER29.b3 MER20 remetitive element:
	227	2017	7				ht09g01.x1 NCI_CGAP_Kid13 Homo saplens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
2726	15216	27731	2.12	1.0E-35	BE350127.1	EST_HUMAN	MER29 repetitive element ;
3103	15656	28068	1.08	1.0E-35	99030	N	Homo sapiens transcription elongation factor B (SIIII), polypeptide 1-like (TCEB1L) mRNA
3122	15675	28088	. 1.53	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo saplens cDNA clone GLCCEF08 3'
3122	15675	28089	1.53	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEF06 3'
4450	16970	29356		1.0E-35	7658905 NT	L	Mus musculus activin receptor Interacting protein 1 (Artp1-pending), mRNA
4450	16970	29357	9	1.0E-35	TN 2088397	L	Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA
6000	17510	29884	1.74	1.0E-35	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
5451	17946	30297	1.69	1.0E-35		NT	Homo sapiens hypothetical protein FLJ20285 (FLJ20285), mRNA
5772	18353	30813	1.63	1.0E-35	11526236 NT	L	Homo saplens chromatin assembly factor 1, subunit B (p60) (CHAF1B), mRNA
7414	18083	30376	0.72	1.0E-35	AW 808665.1	EST_HUMAN	MR1-ST0111-111199-011-d07 ST0111 Homo saplens cDNA
7414	18083	30377	0.72	1.0E-35	AW808665.1	EST_HUMAN	WR1-ST0111-111199-011-d07 ST0111 Homo saplens cDNA
7984	20419	33286	89.0	1.0E-35	AB033105.1	NT	Homo saplens mRNA for KIAA1279 protein, partial cds
8172	20594	33478	1.05	1.0E-35	11418002 NT	NT	Homo sapiens KIAA0845 gene product (KIAA0845), mRNA
9725	24654	35077	1.89	1.0E-35	AU168595.1	EST_HUMAN	AU158695 PLACE3 Homo sapiens cDNA clans PLACE3000382 3'
9725	24654	35078	1.89	1.0E-35	AU158595.1	EST_HUMAN	AU168695 PLACE3 Homo caplens cDNA clone PLACE3000382 3'
11468	23826	36892	2,31	1.0E-35	AB028980.1	TN	Homo sapiens mRNA for KIAA1057 protein, partial cds
11468	23826	36893	2.31	1.0E-35	AB028980.1	ĮŽ.	Homo sapiens mRNA for KIAA1067 protein, partial cds
11608	24864		2.05		11418274	TN	Homo sapiens fibulin 1 (FBLN1), mRNA
11745	14954	27468	1.43	1.0E-35	7705994 NT	NT	Homo sapiens hypothetical protein (LOC61233), mRNA
11831	24083		1.9	1.0E-35	11418110 NT	NT	Homo saplens casein kinase 1, epsilon (CSNK1E), mRNA
12215	24330		2.36	1.0E-35	BE792832.1	EST_HUMAN	601584833F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938985 5'
6311	18872	31598	0.64	8.0E-36	X78479.1	NT	B.bovis BBSc mRNA for scinderin
3079	15633					ΙΝ	Homo sapiens C-terminal binding protein 2 (CTBP2) mRNA
8185	20607	33494	5.59	7.0E-36	U06672.1	N-	Human carcinoembryonic antigen gene family member 12 (CGM12) gene, exons L and L/N
	ì						

							6
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Velue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8185	20607		62.59	7.0E-36		NT	Human carcinoembryonic antigan gene family member 12 (CGM12) gene, exons L and L/N
11995	24184		3.43	7.0E-36	AF052051.1	IN	Homo sapiens glutathione transferase A4 gene, exon 1
1946	14465	26969	2.73	8.0E-36	7706822 NT		Homo saplens ntrjurin 2 (NINJ2), mRNA
2318	14825		96'9	6.0E-36	AB035346.1	NT	Homo saplens TCL8 gene, excn 12
5584	18172	30536	5.06	6.0E-36	A1435169.1	EST_HUMAN	th93b06.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMAGE:2128195 3' similar to gb:M11949 PANCREATIC SECRETORY TRYPSIN INHIBITOR PRECURSOR (HUMAN);
7548	19998	32839			-		ho06h02.x1 NCI_CGAP_Co14 Homo sepiens dDNA done IMAGE:3036827 3' similar to SW:IMA2_HUMAN P52292 IMPORTIN ALPHA-2 SUBUNIT;
9105	21537	34446	2.39	8.0E-36	AF208161.1	LN L	Homo saplens syncytin precursor, mRNA, complete cds
11301	23668	36713		6.0E-36	AI380499.1	EST_HUMAN	tt85c09.x1 NCI_CGAP_CLL1 Homo saplens cDNA clone IMAGE:2107024 3' similar to contains MER9.b2 MER9 repetitive element;
12452	24778	30684	1.5	6.0E-36	BE737154.1	EST_HUMAN	601305064F1 NIH_MGC_39 Homo saplens cDNA clone IMAGE:3639782 5'
142	12748				AJ271735.1	TN	Homo sapiens Xq pseudoautosomal region; segment 1/2
2708	15198		28.24		BE388436.1	EST_HUMAN	601285567F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3607289 5'
3606	16146	28553	2.02		AL163209.2	NT	Homo saplens chromosome 21 segment HS21C009
4840	17362				TN 6279275	NT	Homo saptens API5-like 1 (API5L1), mRNA
4840	17352				TN 6278273	TN	Homo sapians API5-like 1 (API5L1), mRNA
8351	20766	33662	0.45		11079227 NT	NT	Homo saptens N-ethylmaleimide-sensitive factor (NSF), mRNA
11575				5.0E-36	AJ2717	NT	Homo saplans Xq pseudoautosomal region; segment 1/2
11887			3.37		11417862 NT	NT	Homo saplens calcineurin binding protein 1 (KiAA0330), mRNA
1257	13795	26241	1.84	4.0E-36	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo saplens cDNA
1471	14003	26470	1.11	4.0E-36	P10266	SWISSPROT	RETROVIRUS-RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE)
1651	14182	L	1 19	4.0E-36	BE382574.1	EST HUMAN	601298574F1 NIH_MGC_19 Homo sepiens cDNA clone IMAGE:3628386 5
2128	14841		1.53	4.0E-36	AW247772.1	EST_HUMAN	2820020.5prime NIH_MGC_7 Home sapiens cDNA clone IMAGE:2820020 5'
3327				4.0E-36	BE389299.1	EST_HUMAN	601282266F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604168 5
3327	15874	28297	0.73		BE389299.1	EST_HUMAN	601282288F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3604169 67
5303	17803		80		AA905361.1	EST HUMAN	oko5b11.s1 Soarss_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1606909 3' similer to SW.D3HI RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR:
2990	L	L		L	R64023.1	ı	y19f05.r1 Soares placenta NbZHP Homo sapiens cDNA clone IMAGE:139713 6'
6361		31654	2.86	4.0E-36	11497041 NT	뉟	Homo saplens a disintegrin and metalloproteinase domain 22 (ADAM22), trancript variant 3, mRNA
8184			2		M33320.1	F	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
8038	1				D87675.1	Ę	Homo seplens DNA for amyoid precursor protein, complete cds
8038	21471	34382	1.3	4.0E-36	D87675.1	ᅜ	Homo sapiens DNA for amyloid precursor protein, complete cds

Table 4
Single Exon Probes Expressed in Lung

Top Hit Descriptor Top Hit Descriptor Source	EST_HUMAN zu89c10.r1 Scares_testis_NHT Homo sapiens cDNA clone IMAGE:743260 5'		EST_HUMAN AV753629 TP Homo sapiens cDNA clone TPGABH01 5'	Homo sapiens mRNA for KIAA0027 protein, pertial cds	Homo septens neuredn III-eipha gene, partiel cds	Homo septens KIAA0952 protein (KIAA0952), mRNA	Mus musculus junctophilin 1 (Jp1-pending), mRNA	Homo sapiens Meis1 (mouse) homalog (MEIS1) mRNA	EST_HUMAN 601106343F1 NIH_MGC_16 Homo explens cDNA clone IMAGE:3342706 67	EST_HUMAN QV0-0T0030-240300-174-h04 OT0030 Hamo sepiens-cDNA	Mus musculus p47-phox gene, complete cds	EST_HUMAN EST06648 Infant Brain, Bento Soares Homo sapiens cDNA clone HIBBJ28 6' end	Г	EST_HUMAN UI-H-BW1-amu-e-11-0-UI:s1 NCI_CGAP_Sub7 Home sapiens cDNA clone IMAGE:3071132 3'	EST_HUMAN 601300938F1 NIH_MGC_21 Homo esplens cDNA clone IMAGE:3635480 5	EST_HUMAN RC1-HT0217-131199-021-h07 HT0217 Homo septens cDNA		EST_HUMAN 602136493F1 NIH_MGC_83 Homo esplens cDNA clone IMAGE:4272886 5	xp57a06x1 NCI_CGAP_Ov39 Homo saplens cDNA clone IMAGE:2744434 3' similar to WP:C13F10.7 HUMAN CE08148 :	NT Homo sapiens human endogenous retrovirus W proC8-19 protease (pro) gene, partial cds	EST_HUMAN DKFZp434G022_r1 434 (synonym: htes3) Homo saplens oDNA clons DKFZp434G022 6'		wb37c12.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2307852 3' similar to contains Alu EST HUMAN repetitive element.	1936g10.r1 Soares infant brain 1NIB Homo saplens cDNA cione IMAGE:34529 5' similar to	1	ST_HUMAN SP:CAHP_HUMAN P35Z19 CARBONIC ANHYDRASE-RELATED PROTEIN;	EST_HUMAN DKFZp761A229_r1 761 (synonym: hamy2) Homo septens cDNA clone DKFZp761A229 5	Homo sepiens a disintegrin and metalloproteinase domain 11 (ADAM11), mRNA	Homo septens a disintegrin and metalloprotelnase domain 11 (ADAM11), mRNA	1	EST_HUMAN zo51a12.r1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5
Top Hit Acession No.	AA400370.1 EE	11420516 NT	AV753629.1 ES	D25217.2 NT	AF099810.1 NT	7662401 NT	10181139 NT	4505150 NT	BE259267.1 ES	AW880376.1 ES	AF267747.1 NT	T08756.1 E	T69629.1 E	BF512794.1 E	BE409310.1 E	BE146523.1 E	BE146523.1 E	BF673761.1 E	AW276898.1 ES	l	AL04446.1 E	4827064 NT	AI867714.1 E			R25012.1 E	AL120542.1 E	11426108 NT	11426108 NT		AA148034.1 E
Most Similar (Top) Hit BLAST E Value	_	4.0E-36	4.0E-36		3.0E-36 /	3.0E-38	3.0E-38	3.0E-38						2.0E-36	1.0E-36	1.0E-36	1.0E-36	1.0E-38			1.0E-36	1.0E-36	1.0E-36	4 DE 28		1.0E-36	1.0E-38	1.05-36	1.0E-38		1.0E-38
Expression Signal	3.16	1.91	5.43	16.3	3.33	1.28	8.62	0.71	6.19	6.19	3.02	3.83	14.13	1.01	2.81	1.92	1.92	3.62	1.48	1.22	0.62	1.17	10.85	0	2	1.8	0.84	0.54	0.54	3.43	3.43
ORF SEQ ID NO:	36190				25699		29440	30268	28097		30765	31400		34954	26910	27087		27142				31460		32003		32032	32380		33218		33941
Exan SEQ ID NO:	23208	24128	24738	24673	13277		17067	17917	Ŀ		18328	18704	19468	22026	13462	14572	14572	14621	14903	ł	L	18757	19051		1	19272	19585	20350	L		21037
Probe SEQ (D NO:	10770	11903	11947	12597	716	2193	4639	5422	3128	6048	5748	6135	6928	9811	806	2057	2027	2107	2399	3317	6004	6191	6497	8778		6726	7051	7911	7911	8602	8602

						,	
Probe SEQ ID		ORF SEQ	Expression	Most Similar (Top) Hit BLAST E	Top Hit Acession No.	Top Hit Database	Tap Hit Descriptor
Ö	ë		<u>.</u>	Value		Source	
8671	21108	34008	1.11	1.0E-36	1.0E-36 AA420467.1	EST_HUMAN	nc60e08.rt NCI_CGAP_Pr1 Homo saplens cDNA clone IMAGE:745670
8671				1.0E-36	1.0E-38 AA420467.1	EST_HUMAN	nc60e08.r1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:745670
9361	<u> </u>		2.89	1.0E-36	1.0E-36 AW103658.1	EST_HUMAN	xe82b07.x1 NCI_CGAP_Brr35 Homo saptens cDNA clone IMAGE:2614357 3'
10128	1		2.48	1.0E-36 B	BF364169.1	EST_HUMAN	QV3-NN1023-010600-199-h01 NN1023 Hamo sapiens cDNA
11135	1	36628	5.38		1.0E-36 AW 504143.1	EST_HUMAN	ULHF-BN0-sie-c-03-0-ULT NIH_MGC_50 Homo sepiens cDNA clone IMAGE:3079277 6
11169					1.0E-36 Al905536.1	EST_HUMAN	RC-BT091-210199-110 BT091 Homo saplens cDNA
11169		36591	1.83		1.0E-36 AI905536.1	EST_HUMAN	RC-BT091-210199-110 BT091 Homo saplens cDNA
11763			5.28	1.0E-36	11418177 NT	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12249	24351		8.49	1.0E-38	AL163213.2	NT	Homo sapiens chromosome 21 segment HS21C013
12533	24527		4.09	1.0E-36	AF202723.1	NT	Homo sapiens Sad1 unc-84 domain protein 2 (SUN2) mRNA, partial cds
7856	<u> </u>	33158	2.14	9.0E-37	AW009277.1	EST_HUMAN	ws80b07.x1 NCI_CGAP_Cc3 Homo saplens cDNA clone IMAGE:2504245 3'
7855	20295	33159	2.14		AW009277.1	EST_HUMAN	ws80b07.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2604245 31
12038			1.58		W22618.1	EST_HUMAN	73D4 Human retina cDNA Tsp509I-cleaved sublibrary Homo saplens cDNA not directional
5498	L		1.78	8.0E-37	BE698077.1	EST HUMAN	CM0-UT0003-050800-503-409 UT0003 Homo sepiens cDNA
	Ľ			ł	1_		ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146266 3' similar to contains MER29.b3
6113	18682	31377	3.35	8.0E-37	BE350127.1	EST_HUMAN	WER29 repetitive element ;
							ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
6113	18682	31378	3.35	ļ	BE350127.1	EST HUMAN	MER29 repetitive element;
6165	5 18733	31437	8.56		IQ.	EST_HUMAN	RC1-CN0008-210100-012-a09_1 CN0008 Homo septens cDNA
	L						H.sepkens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RINGB, 9, 13 and 14
8550	20985	33884	7.11		X87344.1	NT	Senes
1317	7 13852	c	3.16	7.0E-37	AL042800.1	EST_HUMAN	DKFZp434E0422_r1 434 (synonym: htes3) Homo sapiens cDNA clane DKFZp434E0422 6
							wk25b11.x1 NCI_CGAP_Brn25 Home saplens cDNA clone IMAGE:2413341 3' similar to contains PTR5.t2
10538	8 22985	35965	10.61	7.0E-37	AI817700.1	EST_HUMAN	PTR6 repetitive element ;
12393	3 24433	3	3.57	6.0E-37	AF202723.1	NT	Homo sapiens Sad1 unc-84 domain protein 2 (SUN2) mRNA, partial cds
6401	18958	3 31692	3.41	5.05-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens dDNA 5' end
8	18958	3 31693	3.41	5.0E-37	AA307123.1	EST_HUMAN	EST178036 Colon carcinoma (HCC) cell line Homo sapiens cDNA 6" end
9181	1 21613	3 34523	1.16	5.0E-37	AV750211.1	EST_HUMAN	AV750211 NPC Hano septens cDNA clane NPCBGH09 5'
10698	8 23137		3.29	L	7657117	INT	Homo saplens glycine C-acetyltransferase (2-amino-3-ketobutyrate-CoA ligase) (GCAT), mRNA
11758	8 24038	3	10.05	L	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
2324	14831	1 27345	5 8.27	4.0E-37	AA702794.1	EST_HUMAN	290b04,s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
6612	2 19162			4.0E-37	AW794502.1	EST_HUMAN	RC6-UM0014-210200-021-H05 UM0014 Hamo sapiens cDNA
1954	4 14472		1.97			EST_HUMAN	DKFZp434L2418_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L2418
195	4 14472	2 26978	1.97	7 3.0E-37	7 AL048956.1	EST_HUMAN	DKFZp434L2418_r1 434 (symonym: htss3) Homo sapiens cDNA clone DKFZp434L2418

9EQ ID SE	14922 10 NO: 15473 14224 15473 15473 15474 15473 15424 15674 156	Signal Si	Top Hit Acession No. No. No. AW961160.1 AW138274.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ3080.1 IQ4080.1 IQ40482 IQ40482 IQ4048221.1 AW972825.1	Detabase Source Source F HUMAN T HUMAN T HUMAN T HUMAN T HUMAN T HUMAN T HUMAN	EST373222 MAGE resequences, MAGF Homo sepiens cDNA EST373222 MAGE resequences, MAGF Homo sepiens cDNA DKF26470027 I 647 (Symonym: hfbr1) Homo sepiens cDNA clone DKF26470007 5 FB2281 Felal brain, Stratagene Homo sepiens cDNA clone FB2281 3 and similar to Human acmatic cytochrome c (HCS) gene add-odb.x/ Benstead colon HPLRB7 Homo sepiens cDNA clone IBAGE:2373898 3' similar to TR:013337 AUSS39 SIMILAR TO POGO ELEMENT: Homo sepiens mRNA for AML1, complete cds AU131202 NT2RP3 Homo sepiens cDNA clone NT2RP3002168 6' Homo sepiens mRNA for AML1, complete cds AU131202 NT2RP3 Homo sepiens cDNA clone NT2RP3002168 6' Homo sepiens mcNA for AML1, complete cds AU131202 NT2RP3 Homo sepiens cDNA clone NT2RP3002168 6' Homo sepiens mouse thismin prophosphodnase bronday (TPK1), mRNA 501458531F1 NIH_MGC_69 Homo sepiens cDNA clone IMAGE:3828208 6' Homo sepiens bock-prome P450, subfamily XVXIIA (strend ZT-11406 6') FST52831 Felal heart II Homo sepiens cDNA clone IMAGE:3411408 6' Homo sepiens bescadillo (zabraflat) homolog 1, containing BRCT domain (PES1), mRNA Mus musculus obgelin (Otog), mRNA Mus musculus obgelin (Otog), mRNA Mus musculus obgelin (Otog), mRNA Mus musculus obgelin (Otog), mRNA Mus musculus obgelin (Otog), mRNA Mus musculus obgelin (Otog), mRNA Homo sepiens cytochrome c (HCT) processed pseudogene, complete cds Contains L.1.2 L1 repatitive element; (MS37231) Homo sepiens cDNA Homo sepiens cytochrome c (HCT) processed pseudogene, complete cds CAR3-F1002-1 Strategers macuropathiellum (#837231) mRNA Homo sepiens cytochrome c (HCT) processed pseudogene, complete cds CAR3-F10036-140700-243-d07 F10089 Homo sepiens cDNA Homo sepiens Cytochrome c (HCT) processed pseudogene, complete cds CAR3-F10036-140700-243-d07 F10089 Homo sepiens cDNA Homo sepiens conference benefice the macuropathiellum sepiens cDNA clone IMAGE:4153992 6' EST384920 MAGE resequences, MAGL Homo sepiens cDNA FEST384920 MAGE resequences, MAGL Homo sepiens cDNA
				EST HUMAN	QV3-OT0064-060400-144-f09 OT0084 Hamo saplens cDNA yn51f07.r1 Soares adult brain N2b5HB557 Homo saplens cDNA done IMAGE:171973 6
ı			. 14	EST HUMAN	601455722F1 NIH MGC 66 Homo septens cDNA clone IMAGE:3859348 5

Table 4
Single Exon Probes Expressed in Lung

											nRNA					dng repeat regions						3,			49775 5'	49776 5				mRNA	770785 5' similar to MANNOSIDASE;	770785 5' strillar to
Top Hit Descriptor	Homo sapiens zinc finger protein ZNF297 (ZNF287), mRNA	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA	Homo saplens mRNA for potassium channel Kw4.2	Homo sapiens mRNA for potasslum channel Kv4.2	Homo saplens chromosome 12 open reading frame 3 (C12ORF3), mRNA	Homo sapiens DNA for Human P2XM, complete ods	Homo sapiens adenylosuccinate lyase (ADSL), mRNA	EST383908 MAGE resequences, MAGL Homo saplens cDNA	Homo saplens RIBIIR gene (partial), exon 8	Homo sapiens detodinase, todothyronine, type II (DIO2), transcript variant 2, mRNA	601450148F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854074 5'	B.taurus mitochondrial aspartate aminotransferase mRNA, complete CDS	B.taurus mitochondrial aspartate aminotransferase mRNA, complete CDS	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions	Homo sapiens HIRA interacting protein 4 (dnaJ-like) (HIRIP4), mRNA	SSU72 PROTEIN	SSU72 PROTEIN	601157633F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3504272 5'	Homo sapiens chromosome 21 segment HS21C100	xw04d01.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'	EST91188 Synovial sarcoma Homo sapiens cDNA 5' end	CM3-FT0181-140700-241-f07 FT0181 Homo sepiens cDNA	yv88b04.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:249775 5	уиввр04.r1 Soares melanocyte 2NbHM Нотго saptens cDNA clone IMAGE:249775 5	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA	Homo saplens chromosome 21 segment HS210048	Homo sapiens SMT3 (suppressor of mif two 3, yeast) homolog 2 (SMT3H2), mRNA	zw30d01.r1 Soares ovary tumor NbHOT Homo sapiens cDNA done IMAGE:770785 5' shmilar to SW:MA12_RABIT P45701 MANNOSYL-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE;	zw30d01.r1 Scares ovary tumor NbHOT Home sapiens cDNA done IMAGE:770785 6' similar to
Top Hit Database Source	Han	Hor							EST_HUMAN EST			HUMAN						Г	SWISSPROT SSU	EST_HUMAN 601		EST_HUMAN xwo	EST_HUMAN EST	EST_HUMAN CM	EST_HUMAN yv8	EST_HUMAN yv8					EST_HUMAN SW	EWZ
 Top Hit Acession No.	11425114 NT	11425114 NT	8923130 NT	AJ010969.1 NT	AJ010969.1 NT	11435947 NT	AB002059.1 NT	11418164 NT	AW971819.1 ES	AJ237740.1 NT	7549804 NT	BE871610.1 EST	Z25466.1 NT	Z25468.1 NT	11435947 NT	AF003530.1 NT	7549807 NT	P53538 SW	P53538 SW	BE279301.1 ES	AL163300.2 NT	AW302461.1 ES	AA378327.1 ES	BF373664.1 ES	H85494.1 ES	H85494.1 ES	AL163248.2 NT	11435947 NT	AL163248.2 NT	5902097 NT	AA437353.1 ES	
Most Similar (Top) Hit BLAST E Value	6.0E-38	8.0E-38	6.0E-38	6.0E-38	6.0E-38	6.0E-38	6.0E-38	6.0E-38	5.0E-38	5.0E-38	6.0E-38		4.0E-38 Z	4.0E-38 Z	3.0E-38	3.0E-38	3.0E-38	3.0E-38 P	3.0E-38	3.0E-38			3.0E-38	3.0E-38	3.0E-38 ₺	3.0E-38	3.0E-38	3.0E-38	2.0E-38	2.0E-38	2.0E-38	100
Expression Signal	1:25	1.26	0.51	0.51	0.51	2.95	12.2	1.36	1.66	7.29	0.71	1.67	86.6	86.6	0.64	3.71	1.45	2.2	2.2	0.59	8.04	69.0	0.55	7.48	2.15	2.15	1.53	1.19	1.45	2.02	1.59	3
ORF SEQ ID NO:	31108	31109	33095	33165	33166		30833	30778	25732	27376	28648	32783	25148	25149	26171			28801	28802		32461	32994		33414	34444	34445		26171	25072	26402	26653	73000
Exan SEQ ID NO:	18435	18435	20235	20300	20300	23941	24265	24698	13307	14856	16243	18859	12733	12733	13729	14538	16233	16397	16397	17173	24624	20138	20624	20536	.21635	21635	22413	13729	12673	13946	14183	4.4102
Probe SEQ ID NO:	5858	5858	7793	7861	7861	11609	12130	12559	747	2351	3876	7458	123	123	1187	2022	3693	3861	3861	4657	7134	7693	8097	8110	9103	9103	10011	12389	62	1412	1652	1887

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3514	16057		1.15	2.0E-38	AF070670.1	TN	Homo sapiens protein phosphatase 2C alpha 2 mRNA, complete cds
4619	17135	29519	4.2	2.0E-38	4557887 NT	NT	Homo sapiens keratin 18 (KRT18) mRNA
5993	18567	31252	0.53	2.0E-38	Z26634.2	₽N	Homo sapiens mRNA for ankyrin B (440 kDa)
5993	18567	31253	0.63	2.0E-38	Z26634.2	NT	Homo sapiens mRNA for ankyrin B (440 kDs)
8265	L	33576	1.64	2.0E-38	AV721103.1	EST_HUMAN	AV721103 HTB Homo septens cDNA clone HTBARH11 5'
8991			4.78	2.0E-38	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sepiens cDNA
8316	21748	34656	1.03	2.0E-38	AF069755.1	Į.	Hamo saplens orphan G protein-coupled receptor HG20 (HG20) mRNA, complete cds
9491	21922		1.25	2.0E-38	BE222256.1	EST_HUMAN	hu09g02.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone lMAGE:3166130 3' similar to TR:O02710 O02710 GAG POLYPROTEIN. ;
10339	22739	36708	1.8	2.0E-38	D63479.2	LN	Homo sapiens mRNA for KIAA0145 protein, partial cds
11248	23612	36657	4.57	2.0E-38	BE712790.1	EST_HUMAN	QV2-HT0698-080800-263-a05 HT0698 Hamo saplens cDNA
11385	23747	36805	3	2.0E-38	AF190501.1	NT	Homo saplens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR8) mRNA, partial cds
11385	23747	36806	3	2.0E-38	AF190501.1	NT	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA, partial cds
11666	23980		6.77	2.0E-38	AV726988.1	EST_HUMAN	AV726988 HTC Homo saplens cDNA clone HTCAXH07 5'
11668	23981		2.44	2.0E-38	AB012723.1	NT	Homo saplens gene for kinesin-like protein, complete cds
11972	24167		1.81	2.0E-38	M55630.1	NT	Human topotsomerase I pseudogene 2
11984	24177	30981	3.09	2.0E-38	H55641.1	EST_HUMAN	CHR220580 Chromosome 22 exon Homo saplens cDNA clone C22_788 5'
12053	24219		1.85		S74906.1	NT	E1 beta=pyruvate dehydrogenase beta (promoter) [human, placenta, Genomic, 1280 nt]
12570	24552		2.63	•	11418248 NT	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
1120	13664		2.27	1.0E-38	AA401570.1	EST HUMAN	zu62b02.ri Soares_testis_NHT Homo sepiens cDNA clone IMAGE:742539 5' similar to contains element MER19 repetitive element;
1942	14481	26965	5.71		4885288 NT	N⊤	Homo sapiens guanine nucleotide binding protein-like 1 (GNL1), mRNA
1956	14474	26980	96.0	1.0E-38	TN 6981997	ΡΉ	Homo saplens KIAA0173 gene product (KIAA0173), mRNA
2400	14904		1.43		AF270831.1	IN	Homo sapiens cyclin K (CCNK) gene, exon 7
4172	16699	29089	0.99	<u>'</u>	AB037863.1	TN	Homo saplens mRNA for KIAA1442 protein, partial cds
4341	16863	29246	7.0	1.0E-38	4505016 NT	F	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4340	16868		2.78	1.0E-38		IN	Homo saplans chromosome 21 segment HS21C003
4346		29252	2.78	1.0E-38	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4637	17153		1.08	1.0E-38	8922543 NT	NT	Homo saplens hypothetical protein FLJ10600 (FLJ10600), mRNA
6331						NT	Mus musculus otogelin (Otog), mRNA
6331	18889	31621	5.31	1.0E-38	7305360 NT	ΤN	Mus musculus otogalin (Otog), mRNA

Table 4 Single Exon Probes Expressed in Lung

					ב ב	יאום עיים פולי	Single Exoli Flores Explessed III caily
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
11657	23974	36551	9.6	3.0E-39	A1084557.1	EST_HUMAN	ox83a10.s1 Soares_NhHMPu_31 Homo sepiens cDNA clone IMAGE:1660986 3' similer to SW:GTR6_RAT P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE;
11705	24007		6.52	3.0E-39	H37803.1	EST_HUMAN	yp51c06.s1 Soares retina N2b4HR Homo saplens cDNA clone IMAGE:1909543'
920	13474		8.23	2.0E-39	BE409203.1	EST_HUMAN	601301607F1 NIH_MGC_21 Hamo saptens cDNA clone IMAGE:3636289 5'
935	13489		17.67	2.0E-39	AI525119.1	EST_HUMAN	promma-7.D01.r bytumor Homo seplens cDNA 6
1057	13603		4.25		AF000573.1	NT	Homo sapiens homogentisate 1,2-dloxygenase gene, complete ods
1652	14084		13.82	2.0E-39	AW372318.1	EST_HUMAN	PMo-BT0340-211299-003-402 BT0340 Hamo saplens cDNA
1918	14437	26939	2.09	2.0E-39	AA720574.1	EST HUMAN	nw21g02.s1 NCL_CGAP_GCB0 Homo sepiens cDNA clone IMAGE:1241138 3' similar to contains THR.t3 THR repetitive element;
2560	L		3.15	2.0E-39	AL163248.2	NT	Homo saplens chromosome 21 segment HS21C048
4427	16948	28338	1.63	2.0E-39	BF370207.1	EST HUMAN	RC4-FN0037-290700-011-a10 FN0037 Homo sapiens cDNA
5751	18333		5.67	2.0E-39	AA508880.1	EST_HUMAN	ng86f03.s1 NCI_CGAP_Pr6 Homo saplens cDNA clone IMAGE:941693
7842	20282	33144	2.4	2.0E-39	AA080867.1	EST_HUMAN	zn06f02.r1 Stratagene hNT neuron (#937233) Homo saplens cDNA done IMAGE:546651 5'
8041	20473	33347	0.82		AL163202.2	N-	Homo saplens chromosome 21 segment HS21C002
8041	20473	33348		2.0E-39	AL163202.2	LN T	Homo saplens chromosome 21 segment HS21C002
8468	20881	33778	0.61	2.0E-30	A1538173 1	FST HIMAN	(175f09,x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2137866 3' similar to TR:Q13537 Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.
11182		_		2.0E-39	D86964.1	NT	Human mRNA for KIAA0209 gane, partial cds
11335	1_		22	2.0E-39	AA633972.1	EST HUMAN	ac73h11.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:868293 3'
11336	23699		22	2.0E-39	AA633972.1	EST_HUMAN	ac73h11.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:868293 3'
12567	24549		20'5	2.0E-39	11425484	NT	Homo saplans myosin phosphatase, target subunit 2 (MYPT2), mRNA
1541				1.0E-39	AJ006345.1	NT	Homo saplens KVLQT1 gene
1641			2.23	1.0E-39	AJ006345.1	TN	Homo sapiens KVLQT1 gene
1653		28544	4.12	1.0E-39	7657020 NT	IN	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4104	17220	29602	8.15	1.0E-39	AW951995.1	EST_HUMAN	EST364065 MAGE resequences, MAGB Homo sapiens cDNA
4704	17220	28603	8.15		AW951995.1	EST_HUMAN	EST384065 MAGE resequences, MAGB Homo septens cDNA
4752	17266	29647	11.34	1.0E-39	7657020	ĮŅ.	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
7,00	Ι.					ļ	Homo septens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain
9014	18201	30288	0.97	1.05-39	1141/34Z N	Ž	(TM) and short cytopiasmic domain, (Semephorn) on (SEMADA), micha
5614	18201	30599	0.97	1.0E-39	11417342 NT	۲	Homo sepiens seme domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TIM) and short cytoplasmic domain, (semephorin) 5A (SEIMA5A), mRNA
5897	18475	31155	1.18	1.0E-39	T80876.1	EST HUMAN	yd28g08.r1 Soares fetal liver spieen 1NFLS Homo sapiens oDNA clone IMAGE:109402 5' similar to contains. Abu repetitive element;
5933	18511	31196			AJ278170.1	NT	Mus musculus mRNA for neuronal interacting factor X 1 (NIX1) (NIX1 gene)

Probe SEQ ID NO: NO: 12086 12087 1	Exan SEQ ID NO: 18511 19831 20277 21478 23142 24237 13804 13804 13804 17855 15556 16477 15173 15173 15173 16173 16173 16173 16173 16173 16173 16175 15175 16173 16175 16	ORF SEQ ID NO: 33140 34391 34391 34391 36124 26265 26265 262725 26272 26272 26272 26272 26272 26272 26273 33572 27970 27970 27970 27970 33572 27970 33572 33573 33573 33562 33563 3563 3356 33563 3356 33563 33563 33563 33563 33563 33563 33563 33563 33563	Signal Signal Signal Signal Signal 4.98 4.98 1.174 2.22 2.22 1.172 1.097 10.97 10.97 4.97 4.97 4.97 5.49 2.7 2.8 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49	Most Shrillar (Top) Hit BLAST E Velue 1.0E-39 1.0E-39 1.0E-39 1.0E-39 1.0E-39 1.0E-39 9.0E-40 9.0E-40 9.0E-40 9.0E-40 9.0E-40 9.0E-40 9.0E-40 9.0E-40 8.0E-40	Top Hit Acession No. No. 11436736 D78132.1 O46530 4759170.1 5803210 4756145 4765145 4507512 4603764 AB033070.1 BE396541.1 U60325.1 AA361275.1 BE504766.1 BE504766.1 HE504768.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1 AA361275.1	Top Hit Database Source Source Source Source INT INT INT INT INT INT INT INT INT INT	Mus musculus mRNA for neuronal Interacting factor X 1 (NIX1) (Nix1 gene) Homo sapilars MANA for neuronal Interacting factor X 1 (NIX1) (Nix1 gene) Homo sapilars mRNA for near-tesied GIT-Building protein 3 (TULP-Building protein) Homo sapilars inbosomal protein 36 kinses, 9010.) polypeptide 5 (RP-S6KA5) mRNA Human breat/point cluster region (BCR) gene, complete cds Homo sapilars uDP-glacoses pyrophosphorylase 2 (UGP2), mRNA Homo sapilars AE-binding protein 1 (AEBP1) mRNA Homo sapilars AE-binding protein 1 (AEBP1) mRNA Homo sapilars AE-binding protein 1 (AEBP1) mRNA Homo sapilars Ed-binding protein 1 (AEBP1) mRNA Human DNA polymerase gamma mRNA, nuclear gane encoding mitochondrial protein, complete cds EST70627 T-call lymphome Homo sapilars cDNA done IMAGE:3210480 3* Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein family EST70627 T-call lymphome Homo sapilars cDNA done IMAGE:3210480 3* Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA Homo sapilars fattly acid desaturase 1 (FADS1), mRNA
10016					AV653028.1 AL163285.2	EST_HUMAN NT	AV653028 GLC Homo saplens cDNA clone GLCDGF04 3' Homo saplens chromosome 21 segment HS21C085
1847	1 1				AI686005.1	EST_HUMAN	tt91b01.x1 NCI_CGAP_Pr28 Homo seplens cDNA clone IMAGE:2248873 3' similar to TR:073505 073505 POL PROTEIN.;

						אסוו ביוסף	Single Exoli Tiobes Expressed in Lang
Probe SEQ IO NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
							Homo saplens X-linked anhidrolito ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
2029	14545		3.75	4.0E-40	AF003528.1	NT	regions
4411	16932	29323	9.69	4.0E-40	7682117 NT		Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8628	21063	33871	3.32	4.0E-40	AA742809.1	EST_HUMAN	nv34e10.r1 NCI_CGAP_Br4 Homo septens cDNA clone IMAGE:1222122
9382	21814	34729	80.9	4.0E-40	BE009416.1	EST_HUMAN	PMG-BN0167-070500-002-h12 BN0167 Hamo saplens cDNA
9382	L		6.08	4.0E-40	BE009416.1	EST HUMAN	PMO-BN0167-070500-002-h12 BN0167 Homo saplens cDNA
10502		35932	6.72	4.0E-40	AW841585.1	EST_HUMAN	RC1-CN0017-120200-012-e04 CN0017 Homo saplens cDNA
4150	1				A1925949.1	EST HUMAN	wh12f07.x1 NCI_CGAP_Kld11 Homo septens cDNA clone IMAGE:2380549 3'
6808	ı		0.5			1Z	Homo sapiens ribosomal protein S6 kinase, 70kD, polypaptide 1 (RPS6KB1) mRNA
7003	19539	32323	186'2	·	11417342 NT	IN	Homo saplens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short oxtoplesmic domain, (semaphorin) 5A (SEMA5A), mRNA
8917	1_		4.03]_		Ę	Homo sapiens HBV associated factor (XAP4) mRNA
9320	L		1.31	3.0E-40	AF078779.1	TN	Rattus norvegicus putative four repeat Ion channel mRNA, complete cds
9484	L		1.73	3.0E-40	AF078779.1	TN	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10456	_		2:32		D86984.1	TN	Human mRNA for KIAA0209 gene, partial cds
11035	23462	36483	8.15		6005813 NT	L	Homo sapiens serine threonine protein kinase (NDR), mRNA
338	_		4.71	2.0E-40	AI223036.1	EST_HUMAN	qg52h08.x1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1838847 3'
	i						724610.X1 NCI_CGAP_Ut4 Homo saplens cDNA clone IMAGE:2761098 3' shmilar to SW:RS5_MOUSE
480	133/5		4.74	2.0E-40	AW303808.1	EST HUMAN	AV731601 HTF Homo sanlens cDNA clone HTFAZE05 5'
	1			2.05	2001.1	NC CINCOL	THE CONTRACT OF THE CONTRACT O
1885	14408	28901	2.23	. 2.0E-40	4506188 NT	Ę	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, / (PSMA/) mKNA, and translated products
							Homo saplens proteasome (prosome, macropain) subunit, aipha type, 7 (PSMA7) mRNA, and translated
1885	- 1	1	2.23			LA LA	products
2076		27110	1	2.0E-40	5453592 NT	ΝT	Homo sepiens adentyly cyclase-associated protein 2 (CAP2) mRNA
2638	15133		1.5		BE275932.1	EST_HUMAN	601121567F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345784 5'
3087	15641	28049	6.17	2.0E-40	5453592 NT	NT	Homo sapiens adenylyl cyclase-associated protein 2 (CAP2) mRNA
4969	17480	29858	1.77	2.0E-40	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4889			1.77		AL163280.2	IN	Homo saplens chromosome 21 segment HS21C080
906		10	1.73	1.0E-40		EST_HUMAN	Inc09a09.s1 NCI_CGAP_Pr1 Homo saptens cDNA clone IMAGE:1007608
2652	2 15051	27567	2.15	1.0E-40	BF036881.1	EST_HUMAN	601480375F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3863803 5
2633	3 15128		1.99	1.0E-40	BE018348.1	EST HUMAN	bb79810.y1 NIH_MGC_10 Homo sepiens cDNA clone IMAGE:3048570 6' similar to TR:Q9Z168 Q9Z158 SYNTAXIN 17.;
2693		1 27695	1.9		BF541030.1	EST_HUMAN	602088604F1 NIH_MGC_58 Homo sapiens cDNA clame IMAGE:4067736 5'

Table 4
Single Exon Probes Expressed in Lung

					2)	2	
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2693	16184	27696	1.9	1.0E-40	BF541030.1	EST_HUMAN	602068604F1 NIH_MGC_58 Homo saplens cDNA clone IMAGE:4087738 5'
3261	15812		2.13	1.0E-40	4607142 NT	TN	Homo sapiens sorting nextn 3 (SNX3) mRNA
4651	17167	29547	3.45	1.0E-40	4508012 NT	TN	Homo sepiens zinc finger protein 200 (ZNF200) mRNA, and translated products
6577	19128	31872	0.81	1.0E-40	W92708.1	EST_HUMAN	zh78f11,s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:418317.3'
6577	19128	31873	0.81	1.0E-40	W92708.1	EST_HUMAN	zh79f11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
7524	19975	32809	2.02	1.0E-40	AA573201.1	EST_HUMAN	nj42704.s1 NCI_CGAP_AA1 Homo sapiens cDNA clone IMAGE:995167 3'
7524	19975	32810	2.02	1.0E-40	AA573201.1	EST HUMAN	nj42/04.s1 NCI_CGAP_AA1 Homo sapiens cDNA clone IMAGE:895167 3'
7881	20128	32979	0.63	1.0E-40	P26808	SWISSPROT	POL POLYPROTEIN (CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; RIBONUCLEASE H]
10898	23135	36117	18.78	1.0E-40	AU149345.1	EST_HUMAN	AU149345 NT2RM4 Homo sepiens cDNA clane NT2RM4002122 3'
12108	24820		6.18	1.0E-40	3F334112.1	EST_HUMAN	MR2-CT0222-211099-002-e10 CT0222 Homo seplens oDNA
Ş	24764		207	1 05 40	AW407609.4	ECT LIMAN	xx87a05x1 Sogres_NFL_T_GBC_S1 Homo septens cDNA done IMAGE:2701424 3' stmilar to sew restn MOI iste postest I IVER CARROXY ESTERASE PRECURSOR
3040	16247	87286	75.3	1	M/01508 1	EST HIMAN	2938602 rt Sparas fetal liver soleen 1NFLS Homo sentens CDNA clone IMAGE:294502 5
2010	2001		27.0	9.0E-41	A1 482002 D	NT.	Limbo solious chromenona 21 segment HS2/LO03
1/00	21012		1.01		ALTOSZUS.Z		I adhen adhen an an an an an an an an an an an an an
851	15295		1.38		Al934364.1	EST_HUMAN	wp04h04.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2463895 3
851	1		1.38		Al934364.1	EST_HUMAN	wp04h04.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2463895 3
5414						NT	Homo saplens hypothetical protein (FLJ10896), mRNA
5515	1		1.06	7.0E-41	11545770 NT	TN	Homo sapiens hypothetical protein FLJ13188 (FLJ13188), mRNA
6312	18873	31599	ε	7.0E-41	11419208 NT	NT	Homo sepiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
6684	19232	31982	22.0	7.0E-41	11433010 NT	NT	Homo sapiens IQ motif containing GTPese activating protein 1 (IQGAP1), mRNA
7411	18080	30373	0.82	7.0E-41	U72335.1	FN	Human platelet activating factor acetyfhydrolase, brain isoform, 45 kDa subunit (LIS1) gene, exons 3 and 4
11183	23599	36642	3.31	7.0E-41	4758445 NT	N.	Homo sapiens guanine nucleotide binding protein 10 (GNG10) mRNA
12579	24817		10.77	7.0E-41	11417972 NT	ZZ.	Homo saptens pescedillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
28	12890	26311	0.94	6.0E-41	AB037163.1	NT	Homo saplans DSCR5b mRNA, complete cds
2032	14648	L	2.36	6.0E-41	7857042 NT	NT TX	Homo saplens Down syndrome candidate region 1 (DSCR1), mRNA
4499	<u>l_</u>				BE567816.1	EST_HUMAN	601340485F1 NIH_MGC_63 Homo septems cDNA clone IMAGE:3682677 5'
	L.,			١.			Homo sapiens glycerol-3-phosphate dehydrogenase 2 (mitochondrial) (GPD2), nuclear gene encoding
6137		_			4504084	N	mitochondrial protein, mRNA
8610	21045	33960		6.0E-41	BF513783.1	EST_HUMAN	UI-H-BW 1-amp-b-03-0-UI:s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070421 3'
6889	19439		2.64		BE067042.1	EST_HUMAN	PM4-BT0341-251199-002-F11 BT0341 Homo saplens cDNA
406	12982				BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-g09 HT0367 Homo sapiens cDNA
1125	13669	26108	2.82	4.0E-41	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 6

Table 4
Single Exon Probes Expressed in Lung

_				_		_		_	_		_	_		_	_		_	Τ-	_	$\overline{}$			$\overline{}$	_		_	_	_	
	Top Hit Descriptor	ow45e08.s1 Scares_parethyroid_tumor_NbHPA Hono sapiens cDNA clone IMAGE:1649794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE.; contains LTR5.b1 LTR5 repetitive element;	ow45e08.s1 Scares_parathyroid_tumor_NbHPA Homo sepiens cDNA clone IMAGE:1649794 3' similar to TR:000597 000597 CYTOCHROME CLIKE POLYPEPTIDE. ;contains LTR5.b1 LTR5 repetitive element;	Homo saplens gene for activin receptor type IIB, complete cds	m98c04.x1 NOI_CGAP_Bm25 Homo septens cDNA clone IMAGE:2165958 3' similar to contains OFR.b1 OFR repetitive element;	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3	H.sapiens DNase I hypersensitive site (HSS-3) enhancer element	AV768295 BM Homo sapiens cDNA clone BMFBHC06 5'	801888096F1 NIH_MGC_17 Homo saplans cDNA clone IMAGE:4122119 5'	AV710480 Cu Homo saplens cDNA clone CuAACC07 5'	AV708431 ADC Homo sapiens cDNA clone ADCARE02 5'	601508315F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3910059 6'	Rattus norvegicus mRNA for 45 kDa secretory protein, partial	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete orls)	Homo sapiens mRNA for KIAA1327 protein, partial cds	H.saplens mRNA for putative p64 CLCP protein	Homo sapiens mRNA for KIAA1387 protein, partial cds	EST64883 Jurkat T-cells VI Homo sapiens cDNA 5' end	1y75d08.r1 Soares breast 2NbHBst Homo septens oDNA clone IMAGE:164575 61	af17f10.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1031947 3'	Human ribosomal protein L23a mRNA, complete cds	EST35618 Embryo, 8:week I Homo saplans oDNA 6' and	Human mRNA for KIAA0207 gene, complete cds	G.gorilla DNA for ZNF80 gene homolog	Human ribosomal protein L23a mRNA, complete cds	2x08b04.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:785839 5	Homo saplens chromosome 21 segment HS21C067
	Top Hit Database Source	EST. HUMAN	EST_HUMAN	N	EST_HUMAN	N L	LN	ΝΤ	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	N	NT	FN	Ł	NT.	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	뉟	EST_HUMAN	NT	FN	TN	EST_HUMAN	N
	Top Hit Acessian No.	AI027117.1	Al027117.1	AB008681.1	A1500406.1	AJ229041.1	AJ229041.1	X92685.1	AV758295.1	BF304683.1	AV710480.1	AV708431.1	BE887118.1	AJ132362.1	AB030176.1	AR026898.1	AB037748.1	X87689.1	AB037808.1	AA356168.1	R54765.1	AA609768.1	U43701.1	AA331940.1	D86962.1	X89631.1	U43701.1	AA449549.1	AL163267.2
	Most Similar (Top) Hit BLAST E Vælue	4.0E-41	4.0E-41	4.0E-41	4.0E-41	4.0E-41	4.0E-41	4.0E-41	4.0E-41	4.0E-41	4.0E-41	4.0E-41	4.0E-41	4.0E-41	3.0E-41	3.0E-41	3.0E-41	3.0E-41	3.0E-41	3.0E-41	3.0E-41	3.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41
	Expression Signal	7.06	7.08	1.59	5.51	3.81	3.81	2.36	1.78	5.94	7:37	1.37	2.14	1.24	1.83	2.88	1.09	10.3	0.84	1.20	0.62	1.66	18.84	1.46	1.89	3.36	8.3	0.64	1.03
	ORF SEQ ID NO:	26430	26431	26448	26843	27813				35169			30856		25987	29263		30787			33665		26580	26923	27162	27208	26580		29560
	Exan SEQ ID NO:	13973	13973	13986	14174	15398		16690	19389	1	23767			24815	13524	16880		18334				23947	14113	14426	14637	14681			17181
	Probe SEQ ID NO:	1441	1441	1454	1643	2842	2842	4163	6829	8830	11406	12309	12607	12550	971	4358	5258	5752	6715	7711	8354	11616	1801	1907	2124	2170	2786	3297	4665

Top Hit Descriptor	Homo saplens chromosome 21 segment HS21C067	no12c07.st NCI_CGAP_Phe1 Homo sepiens cDNA done IMAGE:1100460 3' striller to gb:X52851_ma1 PEPTIDYL-PROLYL CIS-TRANS ISOMERASE A (HUMAN);	Homo saplens Integrin, beta 8 (ITGB8) mRNA	Homo sapiens tryptophan hydroxylase (tryptophan 5-monooxygenase) (TPH), mRNA	Homo sapiens homolog of Nedd5 (hNedd5) mRNA, complete cds	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC6L), mRNA	Human B-cell specific transcription factor (BSAP) mRNA, complete cds	Human B-cell specific transcription factor (BSAP) mRNA, complete cds	EST31723 Embryo, 12 week I Homo sapiens cDNA 5' end	ZINC FINGER PROTEIN 135	601445647F1 NIH_MGC_65 Homo sepiens cDNA clone IMAGE:3849803 5	601445647F1 NIH_MGC_65 Homo septens cDNA clone IMAGE:3849803 6	Mus musculus tubulin alpha 6 (Tuba6), mRNA	yx18b03.s1 Scares melancoyte 2NbHM Homo sapiens cDNA clone IMAGE:262081 3'	q775c10.x1 Scares_testis_NHT Homo sapiens cDNA clone IMAGE:1755858 3'	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA	RC0-HT0613-210300-032-g01 HT0613 Homo saplens cDNA	Homo sapiens hypothetical C2H2 zho finger protein FLJ22604 (FLJ22504), mRNA	Homo sepiens hypothetical C2H2 zho finger protein FLJ22504 (FLJ22504), mRNA	Homo saplens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	nh07c02.c1 NCI_CGAP_Thyf Homo sapiens cDNA clone IMAGE:943586 similar to TR:0434304 G434304 3078P EXPRESSED SEQUENCE TAG MRNA;	Homo sapiens chronosome 21 segment HS21C085	qf58g12.x1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1754278 3'	nf23g07.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914652	nf23g07.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914652	ni99d06.s1 NCI_CGAP_AIV1 Homo sapiens cDNA clone IMAGE:1206635	Homo sapiens phosphatidylinosital 4-kinase 230 (pi4K230) mRNA, complete cds	Homo sapiens phosphatidylinosital 4-kinase 230 (pi4K230) mRNA, complete ods	xp29f08.x1 NCI_CGAP_HN10 Hamo sapiens cDNA clone IMAGE:2741799 3' similar to contains L1.11 L1 repetitive element ;
Top Hit Database Source	Į.	EST_HUMAN	N	N.	L	NT	NT	TN	EST_HUMAN	SWISSPROT	EST_HUMAN	EST_HUMAN	Ę	EST_HUMAN	EST_HUMAN	Ę	EST_HUMAN	M	F	٦	Ę	EST HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	. LN	INT	EST_HUMAN
Тф Hit Acession No.	.163267.2	A584575.1	4504778 NT	11439575 NT	VF038404.1	11422047 NT	A96944.1	2.0E-41 M96944.1	VA328265.1	2.0E-41 P52742	1.0E-41 BE869735.1	3E869735.1	6678468 NT	1.0E-41 H99079.1	41217868.1	11526291 NT	BE179191.1	11560151 NT	11560151 NT	AF003530.1	AB026898.1	8.0E-42 AA493896.1	7.0E-42 AL163285.2	7.0E-42 AI204358.1	7.0E-42 AA569592.1	7.0E-42 AA569592.1	7.0E-42 AA640560.1	6.0E-42 AF012872.1	AF012872.1	6.0E-42 AW238656.1
Most Similar (Top) Hit BLAST E Value	2.0E-41 AL	2.0E-41 A	2.0E-41	2.0E-41	2.0E-41 A	2.0E-41	2.0E-41 M96944.1	2.0E-41	2.0E-41	2.0E-41	1.0E-41	1.0E-41 BI	1.0E-41	1.0E-41	1.0E-41	1.06-41	9.0E-42	9.0E-42	9.0E-42	8.0E-42 AI	8.0E-42.A	8.0E-42	7.0E-42	7.0E-42	7.0E-42	7.0E-42	7.0E-42	6.0E-42	6.0E-42 A	
Expression Signal	1.03	0.59	0.85	4.0	7.5	0.54	1.57	1.57	1.48	1.51	1.18	1.18	10.81	0.58	1.62	2.43	1.14	3.13	3.13	6.47	2.1	31.76	2.64	1.43	2.88	2.88	1.64		3.67	1.82
ORF SEQ ID NO:	29561		32308				34021	34022	34040		28136	28137	29508	30435	34979			34808		L	27060			34893						
Exen SEQ ID NO:	17181	18382	19525	20459	L	L	21119	21119	21136		15716	15716	17119	18020	22048	24037	21448	21888	L	13054	14546			L	L	L	<u>1</u>	14349	14349	14695
Probe SEQ ID NO:	4665	6802	6988	8027	8208	8472	8684	8684	8701	9324	3163	3163	4603	7246	9633	11757	9013	9457	9457	480	2030	11802	956	9507	10947	10947	11258	1827	1827	2184

Table 4 Single Exon Probes Expressed in Lung

		353417 3'			13			AA, nuclear gene	A. nuclear gene	,			, and translated																				TR:015475
	Top Hit Descriptor	ow83d05.x1 Scares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1653417 31	601061284F1 NIH_MGC_10 Homo saptens cDNA clone IMAGE:3447620 5'	Human endogenous retrovirus pHE.1 (ERV9)	UI-H-BI1-efth-e-04-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721871 3	Homo sapiens partial C9 gene for complement component C9, exon 1	Homo sapiens partial C9 gene for complement component C9, exon 1	Homo saplens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene	Homo sepiens NADH-ubjeuinone oxidereductase AGGG subunit precursor homolog mRNA, nuclear gene	encoding mitochondrial protein, complete cds	Homo sapiens rec (LOC51201), mRNA	Homo sapiens major histocompatibility complex, class II, DM alpha (HLA-DMA) mRNA	Homo saplens origin recognition complex, subunit 5 (yeast homolog)-like (ORCSL) mRNA, and translated	products	nomo sapiens NiAAU233 gene produci (NiAAU233), minina	Homo saplens Golgi vesicular membrane trafficking protein p18 (BET1) mRNA	Homo sapiens chromosome 21 segment HS21C067	Homo sapiens chromosome 21 segment HS21C080	RC3-ST0197-161099-012-a03 ST0197 Homo sapiens cDNA	Homo sapiens proteasome inhibitor (PI31), mRNA	Homo sapiens proteasome inhibitor (Pi31), mRNA	Homo sapians ryanodina receptor 3 (RYR3) mRNA	Homo sapiens mRNA for KIAA1288 protein, partial cds	HSC0FF071 normalized infant brain cDNA Homo sapiens cDNA clone c-0ff07	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA	Homo saplens hypothetical protein FLJ20297 (FLJ20297), mRNA	Homo saplens hypothetical protein FL/20297 (FL/20297), mRNA	y08e11.r1 Soares placenta Nb2HP Homo saplens cDNA clone IMAGE:148172 5	2822251.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822251 5'	wp69b01.x1 NCI_CGAP_Bn.25 Homo saptiens cDNA done IMAGE:2466985 3' similar to TR:015475 O15475 UNNAMED HERV-H PROTEIN; contains LTR7.b1 LTR7 repetitive element;
	Top Hit Database Source	EST_HUMAN	EST_HUMAN	IN	EST_HUMAN	NT	NT	ΕIV		N	LN LN	N		Z	Z	LN L	NT	NT	EST_HUMAN	N L	NT	N.	NT.	EST_HUMAN	IN	EST_HUMAN	EST_HUMAN	IN	TN	LN LN	EST_HUMAN	EST_HUMAN	EST_HUMAN
	Top Hit Acession No.	AI052586.1	E538919.1	(57147.1	1.0E-42 AW 295809.1	1.0E-42 AJ251818.1	1.0E-42 AJ251818.1	1 DE 42 0 E087168 1	Ī	1.0E-42 AF067168.1	11423219 NT	5174458 NT		1N1426064	IN /Z0Z99/	5031610 NT	1.0E-42 AL163267.2	1.0E-42 AL163280.2	1.0E-42 AW813617.1	5803122 NT	5803122 NT	4506758 NT	1.0E-42 AB033114.1	1.0E-42 Z46120.1	4757969 NT	8.0E-43 AV736824.1	8.0E-43 AV736824.1	8923276 NT	8923276 NT	8923276 NT	H13952.1	7.0E-43 AW246442.1	.7.0E-43 AI938748.1
	Most Similar (Top) Hit BLAST E Value	2.0E-42 AI	2.0E-42	1.0E-42 X57147.1	1.0E-42	1.0E-42	1.0E-42	7 20 7	1,01	1.0E-42	1.0E-42	1.0E-42	100	1.0E-42	1.0E-4Z	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	9.0E-43	8.0E-43	8.0E-43	8.0E-43	8.0E-43	8.0E-43	8.0E-43	7.0E-43	.7.0E-43
	Expression Signal	1.14	1.1	1.73	3.8	-	-	45.00	000	15.88	1.02	7.05		10.02	10.7	0.82	1.27	3.63	0.63	2.31	2.31	6.61	2.21	0.63	4.77	17.64	17.64	5.37	5.37	5.37	5.2	10.08	2.86
-	ORF SEQ ID NO:	32460	35274	25742			26112	Nacac		26265		27470					28882	29172	29529	29691		29726			35469	25648		26703	25704		31230	28588	
	Exon SEQ ID NO:	19866	22327	13313	13613	13672	13872	46306		15305		14957	1		1	{			17149	17312	17312	17343			22505	Ĺ					18545	16180	21622
	Probe SEQ ID NO:	7133	9925	754	1067	1128	1128	427E		1275	1697	2466	1	1187	20/2	3787	3938	4262	4633	4798	4798	4831	4930	5048	10104	671	671	720	720	720	6969	3640	9190

						,	
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1376	13910		6.4	_	6.0E-43 AA491890.1	EST_HUMAN	ne72d06.s1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE.909803 similar to gb:L06095 60S RIBOSOMAL PROTEIN L30 (HUMAN);
2514	15015		3	6.0E-43		EST_HUMAN	AV708201 ADC Homo saplens cDNA clone ADCACC10 5'
රෙනව	19187	31938	2.73	6.0E-43	TN 876368	IN	Homo saplens ATP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant MRP3B, mRNA
7316	19728	32532	2.36		6.0E-43 AW468897.1	EST HUMAN	hd30b04.xf Soares, NPL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2910991 3' similar to contains MER1.t3 MER1 MER1 repetitive element;
9932	i	36282	2.25		6.0E-43 AA195154.1	EST HUMAN	z35e08.r1 Sogres, NhHMPu, S1 Homo saplens cDNA clone IMAGE:085410 5' similar to TR:0529641 G529841 DB1, COMPLETE CDS, contains element PTR7 repetitive element;
147	12762		2.41			NT	Homo sapiens chromosome 21 segment HS21C013
. 520					5.0E-43 AA382780.1	EST_HUMAN	EST96033 Testis I Homo sapiens cDNA 5' end
2802	16359		1.53		6.0E-43 AV732578.1	EST_HUMAN	AV732578 HTF Hamp saplens cDNA clone HTFANC06 5'
සෙය					AI613509.1	EST_HUMAN	tw22e07 x1 NCI_CGAP_Brn52 Homo saplens cDNA clone IMAGE:2260452 3'
7310	ļ.,				5.0E-43 AI613509.1	EST_HUMAN	tw22e07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:22604523'
9595	22075	35000	3.85		AA465288.1	EST_HUMAN	aa33d08.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 5'
10302	22702	35667	2.36		5 0F-43 A1733244 1	FST HIMAN	0052c10.x6 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1569810 3' similar to TR:P90591 P90691
10329	上			l_	5.0E-43 AL049110.1	EST HUMAN	DKFZp434D0119_J1 434 (synonym: https3) Homo sapiens cDNA done DKFZp434D0119
10546		35975	7.28		5.0E-43 AW863007.1	EST HUMAN	MR2-SN0007-290400-004-c02 SN0007 Homo saplens cDNA
10751	1				5.0E-43 W29011.1	EST_HUMAN	55a4 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
11209		35835	4.19	5.0E-43	X15804.1	L	Human mRNA for alpha-actinin
,							Homo sapiens X-linked anhidrolite ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
887	_ Ł				_	TN	suojba
6203	_1	╛			A1056338.1	EST_HUMAN	oy47h03.x1 NCI_CGAP_Brn23 Horno septens cDNA clone IMAGE:1669013 3'
6702		32000	0.7		TN 6009689	IN	Homo sapiens gixcy-tRNA synthetase (GARS), mRNA
7570	20020		1.78	4.0E-43	11416793 NT	NT	Homo eapiens protocedherin beta 6 (PCDHB6), mRNA
8761	21195	34097	5.72		4.0E-43 AI244341.1	EST HUMAN	q/76e02.x1 NCI_CGAP_Kid3 Homo saplens cDNA clone IMAGE:1865354 3' similar to contains MER10.t3 MER10 repetitive element :
0784	2440	97008			4 20000	1444	q78a02x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.t3
10250	\perp	L				NA TOWN	Homo sanians vinc finger protein 181 (ZNE181) mRNA
11073	L	L			T77380 1	FST HIMAN	VG72h10 rt Soares fetal liver spleen 1NFLS Home sepiens CDNA clone IMAGE-113827 5
1	1						yg05b05.r1 Soares Infant brain 1NIB Homo saplens cDNA clone IMAGE:31363 5' similar to contains MER10
11/32	24022		3.04		4.0E-43 R20950.1	EST_HUMAN	repetitive element ;

Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1244	13782		3.46	3.0E-43	1.1	IN	Homo sapiens calctum channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
1693	14222	28702	1.71	3.0E-43	3.0E-43 X97869.1	ΙN	H.sapiens gene encoding La autoantigen
3561	16103	28517	14	3.0F.43		Į.	AML1-EVI-1=AML1-EVI-1 fusion profein {rearranged translocation} [human, leukemic cell line SKH1, mRNA Mutant. 5938 nt]
4307	16832		0.94	3.0E-43	3.0E-43 AA548154.1	EST HUMAN	nk65d08.s1 NCI_CGAP_Pr7 Homo sapiens cDNA clone IMAGE:1017419
9099	18194	30558		3.0E-43	Γ		Human carcinoembryonic antigen (CEA) gene, exon 6
9099	18194	30559	9.0	3.0E-43		NT	Human carcinoembryonic antigen (CEA) gene, exon 6
6184	18751	31451	4.1	3.0E-43		TN	Human TBXAS1 gene for thromboxane synthase, promoter region and exon 1
6899	19237	31986	1.61	3.0E-43	1305360 NT	TN	Mus musculus otogelin (Otog), mRNA
6889	19237	. 31987	1.61	3.0E-43	7305360 NT	₽.	Mus musculus ctogelin (Otog), mRNA
7105	19638	32433	4.47	3.0E-43 U	U65487.1	NT	Human ribosomal RNA upstream binding transcription factor (UBTF) gene, partial cds
8778	24182		7 44		3 OF 43 A A 4 5 8 2 4 4	TO TO TO TO TO TO TO TO TO TO TO TO TO T	as88f11.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413.3' strallar to contains THR to THR repetitive element
9230	21662	34671	1.19		7661721	NT	Homo saplens hypothetical protein (HSA011916), mRNA
							qd61c09.xf Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733968 3' similar to contains PTR7.t3
188	12790		10.85	2.0E-43 AI	190764.1	EST_HUMAN	PTR7 PTR7 repetitive element;
. 6821	19362	32138	1.25	2 OF 43 R	-22277R 4	EST HIMAN	hu53a08.x1 NCI_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element MER40 repetitive element:
							hu63a08x1 NCI_CGAP_Brr41 Homo saplens cDNA clone IMAGE:3173750 3' strullar to contains element
6821	19362		1.26	2.0E-43		EST_HUMAN	MER40 repetitive element;
7730	20174	33033	1.27	2.0E-43	2.0E-43 AW207390.1	EST_HUMAN	ULH-BI1-aft-a-09-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:27217123'
8858	21292		6.02	2.0E-43		NT	Human ribosomal protein L23a mRNA, complete cds
10973	23402		3.84	2.0E-43		EST_HUMAN	FB1G5 Fetal brain, Stratagene Homo sapiens cDNA clone FB1G5 3'end similar to LINE-1
1654	14185	26856	6.64	1.0E-43	_	NT	Homo sapiens Res-like GTP-binding protein (RAB27A) gene, exons 1b and 2
1654	14185		6.54	1.0E-43		NT	Homo saplens Ras-like GTP-binding protein (FAB27A) gene, exons 1b and 2
1703	14231	26715	1.94	1.0E-43		ᅜ	Homo saplens chromosome 21 segment HS21C084
2677	15170	27678	3.48	1.0E-43		EST_HUMAN	602022313F1 NCI_CGAP_Bm87 Homo saplens cDNA clone IMAGE:4157666 5'
9999	18251	30652	0.73	1.0E-43	4882244	NT	Homo sapiens pyruvate dehydrogenase kinase, Isoenzyme 3 (PDK3) mRNA
2962			6.87	1.0E-43		ΙN	Homo sapiens Sp4 transcription factor (SP4) mRNA
6967	19504	32283	6.87	1.05-43	4507168 NT	NT	Homo sapiens Sp4 transcription factor (SP4), mRNA
7382	18052	30390	1.17		1.0E-43 R19751.1	EST HUMAN	yg40e01.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:34732 5' similar to SP:BD38_MOUSE P28656 BRAIN PROTEIN DN38;
8686	21021				5.1	M	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds

					,		
Probe SEQ ID	SEQ ID	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit. BLAST E	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
į	<u> </u>			Value			
8682	21117		3.89	1.0E-43	1.0E-43 AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
9241	21673	34583	33.19	1.0E-43	1.0E-43 AW963676.1		EST375749 MAGE resequences, MAGH Homo saplens cDNA
10744	<u>L</u>	L	3.7	1.0E-43	Г	EST_HUMAN	wr87h01.x1 NCI_CGAP_Ktd11 Homo sapiens cDNA clone IMAGE:24947053'
11123			4.65	1.0E-43	11424378 NT	エフ	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E), mRNA
11670	23983		3.59	1.0E-43		EST_HUMAN_	DKFZp761D1015_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761D1015 5'
11976	24170	30979	3.1	1.0E-43	1.0E-43 AI675416.1	EST_HUMAN	wb99b04.x1 NCI_CGAP_Pr28 Homo sepiens cDNA clone IMAGE:23137753'
12213	24328		3.38	9.0E-44	11418322	Ę	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
913	13467	25915	7:32	8.0E-44 AI		EST_HUMAN	qh23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552.3'
913	13467		7.32	8.0E-44	222985.1	EST_HUMAN	qh23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
9028	21460	34369	2.6	8.0E-44		NT	H.saplens DNA for Cone cGMP-PDE gene
10941	23373	36383	3.12	8.0E-44		NT	Homo sapiens mRNA for thymidine kinase, partial
11418	23779	36840		8.0E-44	29139.1	NT	Homo sapiens myosin mRNA, partial cds
11928	24144	30973	3.44	8.0E-44	11527389 NT	NT.	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide F (POLR2F), mRNA
11970	24525	30860	2.38	8.0E-44	11418086 NT	M	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12357	Ш			8.0E-44	11418099 NT	NT	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA
12628	24626	30860	1.81	8.0E-44	11418086 NT	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
678	13243		1.61	7.0E-44	7.0E-44 R06035.1	EST_HUMAN	ye89e01.r1 Soares fetal liver splean 1NFLS Homo saplens cDNA clone IMAGE:124920 5'
2142	14655	27179	1.12	7.0E-44	5031886 NT	TN	Homo sapiens LIM domain-containing preferred translocation partner in lipoma (LPP) mRNA
2919	15474	27896	2.3	7.0E-44	7.0E-44 AF048729.1	TN	Homo saplens minisatellite ms32 repeat region
2919	15474	27897	2.3	7.0E-44	7.0E-44 AF048729.1	TN	Homo sapiens minisatellite ms32 repeat region
3868	16404	28808	3.31	7.0E-44	7.0E-44 AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4268	16783	29166	1.04	7.0E-44	7.0E-44 AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
4258	16783	29167	1.04	7.0E-44		NT	Homo sepiens chramasome 21 unknown mRNA
8766	21200	34101	4.42	7.0E-44	9.1	EST_HUMAN	AU159839 Y79AA1 Homo sapiens cDNA clone Y79AA1000496 3'
6412	18969	31705	0.72	6.0E-44		EST_HUMAN	HSAAADEYU P, Human foetal Brahn Whole tissue Home sapiens cDNA
317	12912		2.87	5.0E-44		LN LN	Homo sepiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
346	12936		2.21	5.0E-44	5.0E-44 AJ289880.1	TN	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
							tr40d02.x1 NCI_CGAP_Brn25 Homo saplens cDNA clone IMAGE:2170083 3' similar to contains OFR.t1
8553		•				EST_HUMAN	OFR OFR repatitive element ;
3392		28350			~	NT	Homo sapiens chromosome 21 segment HS21C103
5116			1.06			EST_HUMAN	#11402x1 NC_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2130147 3"
7970					E883178.1	EST_HUMAN	601508601F1 NIH_MGC_71 Hamo sapiens cDNA clone IMAGE:3910152 6
11004		36450				NT	Homo sapiens carboxyl terminal LIM domain protein (CLIM1) mRNA, complete cds
2437	14939	1	1.03	Ì	3.0E-44 BE880626.1	EST_HUMAN	601491629F1 NIH_MGC_69 Hamo sapiens cDNA clone IMAGE:3893839 5'

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3028	15813	28022	6.16	3.0E-44		EST_HUMAN	zp18b05.r1 Stratagene fetal retina 937202 Homo saplens cDNA clone IMAGE:609777 5
8328	li		19'0	3.0E-44		EST_HUMAN	601510547F1 NIH_MGC_71 Homo septens cDNA clone IMAGE:3912010 5'
9206			0.83	3.0E-44	3.0E-44 AF005273.1	NT	Sus scrofa domestica submaxiliary apomucin mRNA, complete cds
1075	1	28080	4.8		4826685 NT	NT	Homo sapiens DEAD/H (Asp-Giu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1075			4.8		4826685 NT	NT	Homo sapiens DEAD/H (Asp-Giù-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1238			2.68		1N 0026089	TN	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1238	13778		2.68		1N 0025085	NT.	Homo saplens transmembrane trafficking protein (TMP21), mRNA
1344	13879	26334	5.23	2.0E-44 A	F133588.1	NT	Homo sapiens RAB36 (RAB36) mRNA, complete cds
1401	13935		1.37	2.0E-44	E465326.1	EST_HUMAN	hw14g06.xi NCI_CGAP_Lu24 Homo septens cDNA done IMAGE:3182938 3' similer to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN:
2063	14578	96012	3.42	2.0E-44 A	F070651.1	N.	Homo sapiens tissue-type bone marrow zino finger protein 4 mRNA, complete ods
2450	14951		9.16		4507592 NT	Z.	Homo saplens tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10) mRNA
2539			2.68	2.0E-44	5901933 NT	N	Homo saplens adaptor-related protein complex 4, sigma 1 subunit (CLAPS4), mRNA
3446			1.32		2.0E-44 D87675.1	NT	Homo sapiens DNA for emyloid precursor protein, complete cds
4607		29508	2.68		AW864379.1	EST_HUMAN	PM4-SN0016-120500-003-a04 SN0016 Homo saplans cDNA
6403			1.61	2.0E-44	11449901 NT	LN	Homo saplens chemokine (C-C motif) receptor 9 (CCR9), mRNA
7042	19577	32368	0.44		2.0E-44 AF182034.1	NT	Homo saplens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
7256	18030	30413	2.39	2.0E-44	AF038968.1	ΙN	Homo sapiens general franscription factor 2-l (GTF2l) mRNA, elternatively splloed product, complete eds
7895			3.7			N _T	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
7895			3.7			NT	Homo saplens glutamate receptor, metabotropic 3 (GRM3), mRNA
9081	21513	34422	2.45	2.0E-44	BE389058.1	EST_HUMAN	601286914F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3613586 5
11571	23916		1.82	2.0E-44 B	E244902.1	EST_HUMAN	TCBAP1E2795 Pediatrio pre-B cell acute lymphoblastic laukamia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2785
12460		30877	2.77		8567387	N.	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
12548			1.71	2.0E-44	11526283 NT	NT L	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
54		25076	6.64	1.0E-44	7857334 NT	N	Homo sapiens Misshapen/NIK-related kinase (MINK), mRNA
54			6.64	1.0E-44		NT	Homo sapiens Misshapen/NIK-related kinase (MINK), mRNA
597		25570	2.09	1.0E-44	W853132.1	EST_HUMAN	RC1-CT0249-030300-026-h12 CT0249 Homo saplens cDNA
1228			1.46			EST_HUMAN	RC1-BN0039-110300-012-b01 BN0039 Homo sapiens cDNA
1591	14123		4.89		1.0E-44 AL163303.2	NT	Homo saplens chromosome 21 segment HS21C103
2130	14643	27168	5.09		1.0E-44 AA434554.1	EST HUMAN	zw53d02.r1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:773763 6' similar to contains THR.t3 THR repetitive element;
	ľ						

Probe Exan SEQ ID SEQ ID NO: NO:	ORF SEQ ID ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
		0.84	5.0E-45	11418704 NT	TN	Homo sapiens bane morphogenetic protein 5 (BMP5), mRNA
	21802 34711	1.71	5.0E-45	4759223 NT	NT	Homo sapiens programmed cell death 5 (PDCD5), mRNA
	23784 36845		5.0E-45	8923698 NT	TN	Homo saplens golgin-like protein (GLP), mRNA
	13713 26153	8.81	4.0E-45	4.0E-45 X95826.1	NT	H.saplens ART4 gene
2186 146	14697 27217	1.64	4.0E-45		EST_HUMAN	60119440F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3538425 5
9312 217	21744	0.92	4.0E-45	AA226220.1	EST HUMAN	nc26e07.s1 NCI_CGAP_Pr1 Homo sapiens oDNA clone IMAGE:1009284 similar to contains element L1 repatitive element;
L	24874 30572		4.0E-45	35947	N-	Hamo sapiens chromosome 12 open reading frame 3 (G12ORF3), mRNA
	24322	1.35		4.0E-45 BF676077.1	EST_HUMAN	602084052F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248253 6'
	15850	1.34			EST_HUMAN	yd35f07.r1 Scares fetal liver spleen 1NFLS Homo saplens oDNA clone IMAGE:110245 5'
	15850	2.23	3.0E-45	T71480.1	EST_HUMAN	yd35f07.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:110245 5'
6557 19-		1.31	3.0E-45	6753651	IN	Mus musculus dynein, axon, heavy chain 11 (Dnahc11), mRNA
	19109 31854	1.31	3.0E-45	6753651 NT	NT	Mus musculus dynein, axon, heavy chain 11 (Dnahot1), mRNA
8964 213	21397	1.58		3.0E-45 AV723976.1	EST_HUMAN	AV723976 HTB Homo sapiens cDNA clone HTBAAG01 5'
	21639 34548	3 4	3.0E-45	4758451 NT	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 2 (GOLGA2) mRNA
10244 226	22645 35609	10.82			NT	Homo sapiens chromosome 21 segment HS21C027
	22645 35610	10.82		.2	IN	Homo saplens chromosome 21 segment HS21C027
	24865	2.91	3.0E-45		NT	H.saplens DNA for endogenous retroviral like element
2409 149	14913	1.57			TN	Homo saplens chromosome 21 segment HS21C018
	15546 27958	66.0		2.0E-45 AJ243213.1	NT	Homo saplens partial 5-HT4 receptor gene, exons 2 to 5
6872 19	19412 32187	7 4.48		2.0E-45 L01665.1	LΝ	Human eosinophil Charcot-Leyden crystal (CLC) protein (lyscophospholipase) gene, promoter and exon 1
	20560 33438	1.15			EST_HUMAN	601467793F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3870838 5'
	21375 34288			AW834834.1	EST_HUMAN	RC0-LT0001-150200-032-d11 LT0001 Homo sapiens cDNA
	24658 36015	16.81		2.0E-45 BE934350.1	EST_HUMAN	MR0-HT0923-190800-201-e02 HT0923 Homo saplens cDNA
						ea87712.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838319 6' similar to
	23381 36391	1 4.63		2.0E-46 AA458770.1	EST_HUMAN	TR:G1144569 G1144569 R-SLY1.;
	24500	2.16		8157	IN	Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA1I), mRNA
128 13	13000	1.28		1.0E-45 BE389855.1	EST_HUMAN	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606183 5'
		2.04		1.0E-45 BE389855.1	EST_HUMAN	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606183 5'
490 13		1.44	1.0E-45	4506412 NT	LN	Homo saplens RAP1A, member of RAS oncogene family (RAP1A), mRNA
					NT	Homo sapiens Langerhans cell specific o-type lectin (LANGERIN), mRNA
		8.97		U32169.1	NT	Human pro-a2 chain of collagen type XI (COL11A2) gene, complete cds
3468 16	16012 28434	1.19	1.0E-45	1N 8556598	NT	Homo sapiens chromosome 21 open reading frame 1 (C21cnf4), mRNA

Probe Ewn ORF SEQ ID NO: NO: NO: NO: NO: NO: NO: NO: NO: NO:	Signa Signa	Most Similar (Top) Hit BLAST E Value Value 1.0E-45 1.0	Top Hit Acession No. No. No. AB046811.1 BE396833.1 11545796 D87676.1 BE887843.1 AB002297.1 11418089 11628291 11418197 11418157 8910293 AL183209.2	Top Hit Database Source T_HUMAN	Top Hit Descriptor Homo sapiens mRNA for KIAA1991 protein, partial ods 601289116F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619803 5' Homo sapiens niban protein (NIBAN), mRNA Homo sapiens DNA for amyloid precursor protein, complete ods 601611226F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912635 6' Human mRNA for KIAA0299 gene, partial cds Homo sapiens protein kinase C, alphe Binding protein (PRKCABP), mRNA Homo sapiens Ran GTPase activating protein (FLZ0454), mRNA Homo sapiens Ran GTPase activating protein (FLX0464), mRNA Homo sapiens And GTPase activating protein (FLX0464), mRNA Homo sapiens And GTPase activating protein (FLX0464), mRNA
17.000 17.17697 17.17697 17.17697 18.27132 19.27132 19.27133 19.27133 19.27162 19.27		1.0E-45 1.0E-4	AB046811.1 BE396833.1 11545796 D87675.1 BE887843.1 AB002297.1 11418089 11628291 11418157 B910233	T HUMAN	omo sapiens mRNA for KIAA1691 protein, partial ods 1/289716F1 NIH_MGC_8 Homo sapiens cDNA cions IMAGE:3619803 5' omo sapiens niban protein (NIBAN), mRNA omo sapiens DNA for amyloid precursor protein, complete cds 1/1611226F1 NIH_MGC_71 Homo sapiens cDNA cione IMAGE:3912635 5' uman mRNA for KIAA0289 gene, partial cds omo sapiens protein kinese C, alpha binding protein (PRKCABP), mRNA omo sapiens protein kinese C, alpha binding protein (PRKCABP), mRNA omo sapiens Ran GTPase activating protein I (LANGAP1), mRNA omo sapiens Ran GTPase activating protein I (RANGAP1), mRNA omo sapiens Ran GTPase activating protein I (RANGAP1), mRNA
16105 17030 17030 17030 21607 22132 22132 24183 24475 21233 21525 21233 21525 214847 14847 17134 17134 17134 17134 17134 17376 18908 18908		1.0E-45 1.0E-4	AB046811.1 BE396633.1 11545796 D87675.1 BE887843.1 AB002297.1 11418099 11528291 11418157 11418157 AL183209.2	T_HUMAN	omo sapiens mRNA for KIAA1691 protein, partial ods 11289116F1 NIH_MGC_8 Homo sapiens cDNA cions IMAGE:3619803 5' omo sapiens niban protein (NIBAN), mRNA omo sapiens niban protein (NIBAN), mRNA omo sapiens DNA for amyidd precursor protein, complete ods 01611226F1 NIH_MGC_71 Homo sapiens cDNA cions IMAGE:3912635 6' uman mRNA for KIAA0299 gene, partial cds omo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA omo sapiens hypothetical protein FLJ20454, (FLJ20454), mRNA omo sapiens PAP (Pares activating protein 1 (PANCABP), mRNA omo sapiens RAN (Pares activating protein 1 (PANCABP), mRNA
17030 17697 21607 21855 22132 24061 24183 24475 21233 21525 21762 14847 14847 17134 17134 17134 18906 18908		1.0E-45 1.0E-45 1.0E-45 1.0E-45 1.0E-45 1.0E-45 9.0E-46	BE396633.1 11545796 DB7675.1 BE887843.1 AB002297.1 11418099 11528291 11418177 11418177 AL183209.2	T HUMAN	omo sapiens niban protein (NIBAN), mRNA omo sapiens DNA for amyold precursor protein, complete cds omo sapiens DNA for amyold precursor protein, complete cds of 17256F1 NIH MGC_71 Homo sapiens cDNA clone IMAGE:3912535 67 uman mRNA for KIAA0299 gens, partial cds omo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA omo sapiens Rypothetical protein FL/20454 (FL/20454), mRNA omo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
17667 21607 21855 22132 24061 24183 24475 21225 21225 21762 21762 11734 17134 17134 17376 18908 19384		1.0E-45 1.0E-45 1.0E-45 1.0E-45 1.0E-45 9.0E-46	11545796 D87675.1 BE887843.1 AB002297.1 11418089 11528291 11418177 11418157 8940233 AL168209.2	T_HUMAN	omo sapiens niban protein (NIBAN), mRNA caro sapiens DNA for amylold precursor protein, complete cds 31611226F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912635 6¹ uman mRNA for KIAA0299 gene, partial cds coro sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA coro sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA coro sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
21607 21855 22132 24061 24183 24183 21233 21525 22762 22762 22762 21762 14847 17376 18908 19384		1.0E-45 1.0E-45 1.0E-45 1.0E-45 1.0E-45 9.0E-46	D87676.1 BE887843.1 AB002297.1 11418089 11628291 11418177 11418157 8940293 AL168209.2	T_HUMAN	omo saplens DNA for amylold precursor protein, complete cds 1611226F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3912635 6' uman mRNA for KIAA0299 gene, partial cds omo saplens protein kinese C, alpha binding protein (PRKCABP), mRNA cmo saplens hypothetical protein FLJ20454 (FLJ20454), mRNA cmo saplens Ran GTPase activating protein 1 (RANGAP1), mRNA
21855 22132 24061 24180 24183 21523 21525 21762 21762 21107 17134 17376 18908 19384 24266		1.0E-45 1.0E-45 1.0E-45 1.0E-45 1.0E-45 9.0E-46	BE887843.1 AB002297.1 11418099 11528291 11418177 11418157 8940293 AL168209.2	T HUMAN	11611226F1 NIH_MGC_71 Homo seplens cDNA clone IMAGE:3912635 6' uman mRNA for KIAA0299 gene, partial cds omo seplens protein kinese C, alpha binding protein (PRKCABP), mRNA omo seplens hypothetical protein FLJ20454 (FLJ20454), mRNA omo seplens Ran GTPase activating protein 1 (RANGAP1), mRNA
22132 24061 24183 24183 21525 21625 21625 21625 2107 14847 1734 17376 18908 19384 24266		1.0E-45 1.0E-45 1.0E-45 1.0E-45 1.0E-45 9.0E-46	AB002297.1 11418099 11628291 11418177 11418157 8910293 AL168209.2		uman mRNA for KIAA0299 gene, partial cds omo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA omo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA omo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
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24180 24183 24475 21233 21525 22762 22762 21107 17134 17376 18908 19384 24266		1.0E-45 1.0E-45 9.0E-46 9.0E-46	11528291 11418177 11418157 8910283 AL163209.2		omo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA omo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
24183 24475 21233 21525 22762 22762 21107 17134 17376 18908 19384 24266		1.0E-45 1.0E-45 9.0E-46	11418177 11418157 9910283 AL163209.2		omo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
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21525 22762 22762 14847 14847 21107 17134 17376 18008 19384 24266		9.0E-46	AL163209.2		Mus musculus kerátin complex 2, gene 6g (Krt2-6g), mRNA
22762 14847 14847 21107 17134 17376 18008 19384 24268					Homo saplens chromosome 21 segment HS21C009
14847 14847 21107 17134 17376 18008 19384 24266		7.7 9.0E-46	AW 246964.1	EST_HUMAN 2	2822449.5prime NIH_MGC_7 Hamo sepiens cDNA clone IMAGE:2822449 6'
14847 21107 21107 17134 17376 18006 19384 24266				ţ	ti32f08.x1 NCI_CGAP_Gas4 Homo saplens cDNA clone IMAGE:2132199 3' similar to gb:J00314_rna2
14847 21107 17134 17376 18384 19384 24285	27364 6.	5.04 8.0E-48	AI433261.1	EST_HUMAN T	TUBULIN BETA-1 CHAIN (HUMAN);
14847 21107 17134 17376 18506 19384 24266					tt32f08.x1 NCI_CGAP_Gas4 Homo saplens cDNA clone IMAGE:2132169 3' similar to gb:J00314_ma2
21107 17134 17376 18908 19384 24266	27365 5.	5.04 8.0E-46	Al433261.1	EST_HUMAN T	TUBULIN BETA-1 CHAIN (HUMAN);
17134 17376 18908 18384 24266	3.	3.92 8.0E-46	BE167244.1	EST_HUMAN R	RC5-HT0508-280200-012-C12 HT0508 Homo sapiens cDNA
17376 18906 19384 24266	7	7.0E-48	BE386165.1	EST_HUMAN 6	601277292F1 NIH_MGC_20 Home septens cDNA clone IMAGE:3818119 5
18906 19384 24266	-	7.0E-46	BE064386.1	EST_HUMAN R	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
19384		3.97 7.0E-46	8922708 NT		Homo sapiens hypothetical protein FLJ10847 (FLJ10847), mRNA
	32159 1.	1.41 7.0E-46	BF105845.1	EST_HUMAN 6	601822835F1 NIH_MGC_77 Homo sapians cDNA clone IMAGE:4042736 5
	1	1.67 7.0E-46	AL163246.2		Homo sapiens chromosome 21 segment HS21C046
. !					wm31f08.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:24375763's imiliar to contains MER19.02
2712 15202 27	27718 3.	3.59 6.0E-46	A1884381.1	EST_HUMAN N	MEK19 repetitive element;
-					wm31f08.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2437575 3' similar to contains MER19.t2
2712 16202 27	27719 3	3.59 6.0E-46	A/884381.1	EST_HUMAN IN	MEK19 repetitive element;
10000	04720	94 05	A1005440 4	_	tspenju.X1 NCI_CGAP_Kide Homo sapiens cuina gone image:7232835 3' similer to i K:060363 Obu363 SA OENE :
Ì		.00 0.0E-40	A1050446.1	EDI HUMAIN	א ספורב. ו
7664 20110 32	32961	0.7 8.0E-46	AW 513244.1	EST HUMAN P	xx42e04.x1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:2706654 3' similar to gb:L06069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
7857 20287 33	33162 0	0.62 6.0E-46	BF509740.1	EST HUMAN	UI-H-BI4-apg-b-06-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA done IMAGE:3087298 3'
1	9	5.48 5.0E-46	AL163210.2	Г	Homo saplens chromosome 21 segment HS21C010
3510 16053 28	28474 1.	1.38 5.0E-46	BE677194.1	EST_HUMAN 7	7d81g01 x1 Lupski_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408 3*

17340 29722 1.7 3.0E-48 Z73880.1 NT H.seplens ig lambda light chain variable region gene (7c.11.2) germline; ig-Light-Læmbda; VLambda My9c-04.x1 NCi_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406160 3' stmilar to contains THR.b2 1721 2.0E-48 AA458646.1 EST_HUMAN THR repetitive element; C.30E-48 AA458646.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.17 2.0E-48 AA458246.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.17 2.0E-48 AA458246.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.17 2.0E-48 AA458246.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.17 2.0E-48 AA458246.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.17 2.0E-48 AA458246.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.17 2.0E-48 AA458246.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.17 2.0E-48 AA458246.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.17 2.0E-48 AA458246.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.17 2.0E-48 AA458246.1 EST_HUMAN Z27a11.s1 Soares_fetal_liver_spleen_2NFLS_S1 Homo sapiens cDNA clone IMAGE:431986 3' similar to contains THR.b2 THR 1.18 2.0E-48 AA458246.1 EST_HUMAN Z27a1	SEQ ID SEQ ID NO: NO: NO: NO: NO: NO: NO: NO: NO: NO:	28 28475 10 ORF SEQ 10 ID NO: 10 ORF SEQ 10 32443 10 32846 10 33167 10 Signal Signal 1.38 1.64 25 0 0.67 0.07 0.09 0.99 0.99 0.99 0.99 0.99 0.9	Top Hit Acession No. No. F677194.1 F590442.1 F347229.1 W682253.1 E549744.1 A601143.1 A601143.1 R18048.1 R18048.1 R18048.1 R18048.1 R18048.1 R18048.1 R18048.1 R18048.1 R18048.1 R18048.1 R1804522.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1 R180852.1	Top Hit Database Source Source I HUMAN I HUMAN I HUMAN I HUMAN I HUMAN I HUMAN I HUMAN	Top Hit Describtor Td61g01x1 Lupsid_dorsal_root_ganglion Home saptens cDNA clone IMAGE:3270408 3¹ Tasa3807x1 NCI_CGAP_Kd11 Home saptens cDNA clone IMAGE:3256767 3¹ similar to TR:075202 O75202 HOMOLOG OF RAT KIDNEY-SPECIFIC; 602021164F1 NCI_CGAP_Em67 Home saptens cDNA clone IMAGE:4156670 5¹ GV4-ST0212-120100-075-098 ST0212 Home saptens cDNA clone IMAGE:3230481 3² Tb38B615x1 NCI_CGAP_LU24 Home saptens cDNA clone IMAGE:32008836 3¹ similar to gb:Xf4008_ma1 LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element; H88c.03.x1 NCI_CGAP_LU24 Home saptens cDNA clone IMAGE:3008836 3² similar to gb:Xf4008_ma1 LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element; H88c.03.x1 NCI_CGAP_LU24 Home saptens cDNA clone IMAGE:3008836 3² similar to gb:Xf4008_ma1 LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element; H88c.03.x1 NCI_CGAP_LU24 Home saptens cDNA clone IMAGE:3008836 3² similar to gb:Xf4008_ma1 LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element; H88c.03.x1 NCI_CGAP_LU24 Home saptens cDNA clone IMAGE:3008836 3² similar to gb:Xf4008_ma1 LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element; H88c.03.x1 NCI_CGAP_LU24 Home saptens candogencus reproduits RTM/LH2 Home saptens mRNA for KIAA0822 protein, partial cds Home saptens mRNA for KIAA0822 protein, partial cds Home saptens DNA for Human P2XM, complete ode Home saptens calcte carrier family 35 (CAMP-sialto calf terrasporter), member 1 (SLC35A1), mRNA Home saptens sadute carrier family 35 (CAMP-sialto calf terrasporter), member 1 (SLC35A1), mRNA Home saptens sadute carrier family 35 (CAMP-sialto calf terrasporter), member 1 (SLC35A1), mRNA Home saptens sadute carrier family 35 (CAMP-sialto calf terrasporter), member 1 (SLC35A1), mRNA Home saptens sadute carrier family 35 (CAMP-sialto calf terrasporter), member 1 (SLC35A1), mRNA Home saptens fig lambda light chain variable region gene (7c.11.2) germline; lg lembda light chain variable region gene (7c.11.2) germli	
34516 9.23 3.0E-46 A1831462.1 EST_HUMAN 36734 2.63 3.0E-46 D31765.1 NT 25861 10.12 2.0E-46 AA468646.1 EST_HUMAN 1.17 2.0E-46 AA678246.1 EST_HUMAN 26848 2.0E-46 U78027.1 NT	[3			273680.1	Ę	H. sepiens ig tambda light chain variable region gene (7c.11.2) germline, ig-Light-Lembda, VLambda
26848 2.04 A 468846.1 EST HUMAN 26848 2.04 A 78027.1 INT	8				EST_HUMAN	wj49c04.X1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406160 3' similar to contains THR.b2 THR repetitive element ;
26848 10.12 2.0E-46 AA468646.1 EST_HUMAN 1.17 2.0E-46 AA678246.1 EST_HUMAN 26848 2.0E-46 U78027.1 NT	88				NT	Human mRNA for KIAA0061 gene, partial cds
26848 2.04 2.0E-46 AA678246.1 EST HUMAN	§				EST HUMAN	ne08a09.s1 NCI_CGAP_Co3 Homo saplens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR repatitive element;
26848 2.0E-48 U78027.1 NT	141			_	EST_HUMAN	zi27a11.s1 Soares_fetai_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:4318963'
	<u> </u>				Ę	Homo sepiens Bruton's tyrosine kinase (BTK), elphe-D-gelactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds

							3
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database	Top Hit Descriptor
6070	17580		1.03	_	AA399286.1	EST_HUMAN	z69e02.r1 Socres_testis_NHT Homo sepiens cDNA clone IMAGE:726650 6' cimilar to SW:RSP1_MOUSE_ Q01730 RSP-1 PROTEIN ;
7985	20420	33287	8.5	2.0E-48	9910569	, LN	Mus musculus sperm tail associated protein (Stap), mRNA
8685	21120		1.89	2.0E-48	BE869151.1	EST_HUMAN	601445137F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849297 5'
11715			1.4	2.0E-46	BF028854.1	EST_HUMAN	601765225F1 NIH_MGC_53 Homo saplens cDNA clone IMAGE;3997326 5'
11980	24716		1.18	2.0E-48	H48391.1	EST_HUMAN	y/32d01.r1 Soares fetal liver spleen 1NFLS Homo saplans cDNA clone IWAGE:206977 5'
12018	24195		1.21	Ш		EST_HUMAN	zh84f12.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:428015 51
12342		30780	4.33	2.0E-46	AW277214.1	EST_HUMAN	xq78h03.x1 NCI_CGAP_Lu34 Homo sapiens cDNA clone IMAGE:2756789 3'
1266	13802	26251	7.44	1.0E-46	4502694 NT	NT.	Homo saplens cell division cycle 10 (homologous to CDC10 of S. carevisiae) (CDC10) mRNA
2179	14690	27214	2.65	1.0E-46	AW978516.1	EST_HUMAN	EST390625 MAGE resequences, MAGP Homo sapiens cDNA
2298	14805	27323	2.04	1.0E-46	H97330.1	EST_HUMAN	EST48b095 WATM1 Homo sapiens cDNA clone 48b095
9000	45780	70470	77.0	700	7 070700	1	np78b02.s1 NCI_CGAP_Pr2 Homo saplens cDNA clone IMAGE:1132395 similar to gb:X76717 H.saplens
3	ı				AMOS 1812. 1	EO1 TOWAIN	WITH HINGS (TOWNS)
4933			3.13		AB023197.1	L	Homo sapiens mRNA for KIAA0990 protein, partial cds
920					BF194707.1	EST_HUMAN	7692b01.x1 NCI_CGAP_Ov18 Homo seplens cDNA done IMAGE:3843705 3'
6278	24605	31557	6.96	1.0E-46	8923762 NT	TN	Homo saplens centaurin-etpha 2 protein (HSA272195), mRNA
6278	24605	31558	5.98	1.0E-46	8923762 NT	TN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
							7n48e07x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3587852 3' similar to contains element
6969	_		0.77		BF186247.1	EST HUMAN	MER22 repetitive element;
8377	┙		0.43		212341.1	TN	H.sapiens germline ig H-chain V-region (DP-41)
1084			4.7	1.0E-48	BF194707.1	EST_HUMAN	7c92b01.x1 NCI_CGAP_Ov18 Homo seplens cDNA done IMAGE:3643705 3'
10922		36363	1.94		AJ245621.1	L	Homo sapiens CTL2 gene
11747	_		1.73	1.0E-46	BF531102.1	EST_HUMAN	602072264F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4215398 6/
11747		31018	1.73	1.0E-46	BF531102.1	EST_HUMAN	602072264F1 NCI_CGAP_Brn67 Homo septens cDNA clone IMAGE:4215398 5
12571			2.04	1.0E-46	AV715377.1	EST_HUMAN	AV715377 DCB Hamo sapiens cDNA clane DCBAIEC3 5'
788	13346		3.49	9.0E-47	AJ271735.1	TN	Homo saplens Xq pseudoautosomal region; segment 1/2
							hi93e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3009534 3' similar to TR:075703 075703
5011			3.07	9.0E-47	AW 770	EST_HUMAN	HYPOTHETICAL 12.4 KD PROTEIN.;
6710				9.0E-47	11425439 NT	NT	Homo saplens zinc finger protein ZNF286 (ZNF286), mRNA
12291			1.58	9.0E-47	11417968 NT	NT	Homo saplens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
1784					Y18536.1	NT	Homo saplens HLA-C gene, exon 5, Individual 19323
1784	_		102.74	8.0E-47	Y18536.1	TN	Homo sapiens HLA-C gene, exon 5, Individual 19323
2259	14767	27287	8.15	8.0E-47	8923899 NT	NT	Homo sapiens CMP-N-acetylneuraminic acid synthase (LOC55907), mRNA

Probe Exon ORF SEQ ID ID NO: Signal No: Most Signal ID NO: Most Si	.	Top Hit Acession No. No. 450,4866 NT 450,4866 NT A669592.1 EST A669592.1 EST A669592.1 EST A669592.1 EST A673921.1 NT A673921.1 NT A673921.1 NT A6731.771.1 NT A78125.1 NT A78125.1 NT A78125.1 NT A78125.1 NT A78125.1 NT	Top Hit Source Source T HUMAN T HUMAN T HUMAN T HUMAN	Homo sapiens ring finger protein (C3HC4 type) 8 (RNF8), mRNA inf23g07.s1 NG_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914652 inf23g07.s1 NG_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914652 inf23g07.s1 NG_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914652 inf23g07.s1 NG_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914652 inf23g07.s1 NG_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914652 inf23g07.s1 NG_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:3867487 6 inf3g032F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3867487 6 infag03932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3867487 6 infag03932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3867487 6 infag0403932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3867487 6 infag0508.s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:28968 3 similar to contains OFR repetitive element; inceptitive element; infag16 infag0508.s1 Soares fetal iuna NbHL19W Homo sapiens cDNA clone IMAGE:1831189 3' inceptitive element;
292772 2.16 29316 1.66 29444 2.37 31332 0.98 31555 1.55 34486 1.69 35027 1.08 35027 1.08 3563 2.45 28424 3.93 28424 3.93 28765 2.45 28765 2.45 28767 0.68 32473 6.21 32473 6.21		74648		torno saplens ring finger protein (C3HC4 type) 8 (RNF8), mRNA R23g07.s1 NG_CGAP_Pr1 Homo saplens cDNA clone IMAGE:914652 R23g07.s1 NG_CGAP_Pr1 Homo saplens cDNA clone IMAGE:914652 Grao saplens Rev/Rex activation domain binding protein-related (RAB-R) mRNA Iomo saplens Rev/Rex activation domain binding protein-related (RAB-R) mRNA Iomo saplens regulator of G-protein signaling 8 variant form (RGS9) mRNA, complete cds 01463932F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3867487 6' 10463932F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3867487 6' Iomo saplens S-hydroxyfvptannine 1D receptor pseudogene with an Alu repeat Insertion Iomo saplens SPH-binding factor mRNA, partial cds Iomo saplens BTG family, member 3 (BTG3), mRNA Iomo saplens BTG family, member 3 (BTG3), mRNA Iomo saplens BTG family member 3 (BTG3), mRNA Saplens Soares infant brain 1NIB Homo saplens cDNA clone IMAGE:28968 3's similar to contains OFR apetitive element; R92603.st Scares fetal lung NbHL19W Homo saplens cDNA clone IMAGE:1831189 3's
28316 1.66 28417 1.66 28444 2.37 31332 0.98 31555 1.55 31486 1.69 35027 1.08 35623 2.45 28765 2.45 28765 2.45 28767 0.68 28767 0.68 32473 6.21 28626 2.53		74648		123g07.s1 NG_CGAP_Pr1 Homo seplens cDNA clone IMAGE:914652 123g07.s1 NG_CGAP_Pr1 Homo seplens cDNA clone IMAGE:914652 123g07.s1 NG_CGAP_Pr1 Homo seplens cDNA clone IMAGE:914652 123g07.s1 NG_CGAP_Pr1 Homo seplens cDNA clone IMAGE:914652 123g07.s1 NG_CGAP_Pr1 Homo seplens cDNA clone IMAGE:914652 123g07.s1 NIH_MGC_G7 Homo seplens cDNA clone IMAGE:3867487 6 12463932F1 NIH_MGC_G7 Homo seplens cDNA clone IMAGE:3867487 6 12463932F1 NIH_MGC_G7 Homo seplens cDNA clone IMAGE:3867487 6 12463932F1 NIH_MGC_G7 Homo seplens cDNA clone IMAGE:3867487 6 12463932F1 NIH_MGC_G7 Homo seplens cDNA clone IMAGE:3867487 6 12463932F1 NIH_MGC_G7 Homo seplens cDNA clone IMAGE:28968 3's lmilar to contains OFR spetitive element; 125g068.s1 Soares infant brain 1NIB Homo seplens cDNA clone IMAGE:393189 3's spetitive element; 125g063.s1 Scares fetal Tura NDHL19W Homo seplens cDNA clone IMAGE:1931189 3's
28317 1.66 29444 2.37 31332 0.98 31556 1.55 31568 1.69 35027 1.08 3563 2.45 28767 0.68 28767 0.68 28767 0.68 28767 0.68 32473 6.21 26626 2.53	4	74648		P23g07.s1 NCI_CGAP_P71 Homo sepiens cDNA clone IMAGE:914652 Jorno sepiens Rev/Rex activation domain binding protein-related (RAB-R) mRNA Jorno sepiens regulator of G-protein signaling 8 variant form (RGS8) mRNA, complete cds O1463932F1 NIH_MGC_67 Homo sepiens cDNA clone IMAGE:3867487 6' O1463932F1 NIH_MGC_67 Homo sepiens cDNA clone IMAGE:3867487 6' Jorno sepiens 5-hydroxyfvptantine 1D receptor pseudogene with an Alu repeat Insertion Jorno sepiens SPH-binding factor mRNA, partial cds Jorno sepiens BTG family, member 3 (BTG3), mRNA Jorno sepiens BTG family, member 3 (BTG3), mRNA Jorno sepiens BTG series infant brain 1NIB Homo sepiens cDNA clone IMAGE:28968 3's similar to contains OFR 1996103.x1 Scares fetal Turg NBHL199/ Homo sapiens cDNA clone IMAGE:1831189 3's
28444 2.37 31332 0.98 31556 1.55 3486 1.69 35027 1.08 35638 2.45 28424 3.93 27665 2.54 28767 0.68 30072 2.58 32473 6.21 35638 2.15		74848	T_HUMAN T_HUMAN T_HUMAN	lorno sapiens Rev/Rex ectivation domain binding protein-related (RAB-R) mRNA Ideno sapiens regulator of G-protein signaling 8 variant form (RGS9) mRNA, complete cds 101463932F1 NIH_MGC_67 Home sapiens cDNA clone IMAGE:3867487 6' 101463932F1 NIH_MGC_67 Home sapiens cDNA clone IMAGE:3867487 6' 101463932F1 NIH_MGC_67 Home sapiens cDNA clone IMAGE:3867487 6' 101463932F1 NIH_MGC_67 Home sapiens cDNA clone IMAGE:3867487 6' 101463932F1 NIH_MGC_67 Home sapiens cDNA clone IMAGE:28968 3' similar to contains OFR 101463931 Seares infant brain 1NIB Home sapiens cDNA clone IMAGE:28968 3' similar to contains OFR 1024603.x' Scares fetal Tung NDHI.19W Home sapiens cDNA clone IMAGE:1831189 3'
31332 0.98 31556 1.56 31566 1.56 34486 1.69 35027 1.08 35627 1.08 30588 2.45 28424 3.93 27695 2.54 28766 0.68 28776 0.68 32473 6.21 25626 2.53		28138	T_HUMAN T_HUMAN T_HUMAN	lomo sepiens regulator of G-protein signaling 6 variant form (RGS6) mRNA, complete cds 01463932F1 NIH_MGC_67 Home sepiens cDNA clone IMAGE:3867487 5 01463932F1 NIH_MGC_67 Home sepiens cDNA clone IMAGE:3867487 5 01463932F1 NIH_MGC_67 Home sepiens cDNA clone IMAGE:3867487 6 10463932F1 NIH_MGC_67 Home sepiens cDNA clone IMAGE:3867487 6 10463932F1 NIH_MGC_67 Home sepiens cDNA clone IMAGE:3867487 6 10463932F1 NIH_MGC_67 Home sepiens cDNA clone IMAGE:29968 3's similar to contains OFR spetitive element; 1059681 Soares infant brain 1NIB Home sepiens cDNA clone IMAGE:399189 3's similar to contains OFR spetitive element; 1069603.x1 Scares fetal fung NDHL19W Home sepiens cDNA clone IMAGE:1931189 3's
31555 1.55 31566 1.55 34486 1.69 35027 1.08 35627 2.36 30588 2.45 28424 3.93 27885 2.45 28786 0.68 28787 0.68 32473 6.21 32473 6.21		. 26136	HUMAN	01463932F1 NIH_MGC_67 Homo sepiens cDNA clone IMAGE:3867487 6' 01463932F1 NIH_MGC_67 Homo sepiens cDNA clone IMAGE:3867487 6' tomo sepiens 5-hydroxytyptamine 1D receptor pseudogene with an Alu repeat insertion tomo sepiens SPH-binding factor mRNA, partial ods tomo sepiens BTG family, member 3 (BTG3), mRNA tuman tyrosine kinase receptor (axi) mRNA, complete ods tuman tyrosine kinase receptor (axi) mRNA, complete ods tepetitive element; spetitive element; spetitive series fetal fund NbHL19W Homo sapiens cDNA clone IMAGE:29968 3' similar to contains OFR
31556 1.55 34486 1.69 35027 1.08 35627 1.08 30588 2.45 28424 3.93 27885 2.45 28786 0.68 28787 0.68 30072 2.58 32473 6.21 25626 2.53		28138	T_HUMAN	01463932F1 NIH_MGC_67 Homo seplens cDNA clone IMAGE:3867487 6' tomo seplens 5-hydroxytyptamine 1D receptor pseudogene with an Alu repeat insertion tomo seplens SPH-binding factor mRNA, partial cds tomo seplens BTG family, member 3 (BTG3), mRNA tuman tyrosine kinase receptor (ad) mRNA, complete cds tuman tyrosine kinase receptor (ad) mRNA, complete cds tepetitive element; topositive element; topositive element;
34486 1.69 35027 1.08 35627 1.08 30568 2.45 26424 3.93 27665 2.54 28767 0.68 28767 0.68 32473 6.21 26626 2.53	<u> </u>	.1 628136	T_HUMAN	tomo sapiens 5-hydroxytyptamine 1D receptor pseudogene with an Alu repeat insertion formo sapiens SPH-binding factor mRNA, partial ods formo sapiens BTG family, member 3 (BTG3), mRNA furnan tyrosine kinase receptor (ad) mRNA, complete ods flaze08, s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:29968 3' similar to contains OFR apetitive element; and NDHL19W Homo sapiens cDNA clone IMAGE:1931189 3'
34486 1.69 35027 1.08 35653 2.36 26424 3.93 27655 2.54 27655 2.54 28767 0.68 30072 2.58 32473 6.21 26626 2.53	<u> </u>	.1 628138	T HUMAN	formo saplens SPH-binding factor mRNA, partial cds formo saplens BTG family, member 3 (BTG3), mRNA furman tyrosine kinase receptor (ad) mRNA, complete cds f92e08, s1 Soeres infant brain 1NIB Homo saplens cDNA clone IMAGE:29968 3' similar to contains OFR spetitive element; contain NbHL19W Homo saplens cDNA clone IMAGE:1931189 3'
35627 1.08 35853 2.36 30568 2.45 26424 3.93 27665 2.54 28766 0.68 28767 0.68 30072 2.58 32473 6.21 32626 2.53	<u> </u>	528138	T HUMAN	tomo saplens BTG family, member 3 (BTG3), mRNA tuman tyrosine kinase receptor (adi) mRNA, complete cds 192e08,s1 Soeres infant brain 1NIB Homo saplens cDNA clone IMAGE:29968 3' similar to contains OFR epetitive element;
305853 2.36 30568 2.45 26424 3.93 27665 2.54 28766 0.68 28767 0.68 30072 2.58 32473 6.21 26626 2.53	<u> </u>		T HUMAN	tuman tyrosine kinase receptor (axi) mRNA, complete cds 192e08.s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:29968 3' similar to contains OFR epetitive element; 1098h03.x1 Scares fetal Tung NbHL19W Homo sapiens cDNA clone IMAGE:1931189 3'
30568 2.45 28424 3.93 27665 2.54 28766 0.68 28767 0.68 30072 2.58 32473 6.21 35638 2.1	<u> </u>			192e08.s1 Soares infant brain 1NIB Homo capiens cDNA clone IMAGE:29968 3's similar to contains OFR epetitive element; and the contains of the
30568 2.45 26424 3.93 27665 2.54 28766 0.68 28767 0.68 30072 2.58 32473 6.21 35638 2.13	<u> </u>		$\neg \Gamma$	epetitive etement; paganos x1 Scares fetal fund NbHL19W Homo sapiens cDNA clone IMAGE:1931189 3'
26424 3.63 27665 2.54 28766 0.68 28767 0.68 30072 2.58 32473 6.21 3.46 35638 2.1	-		Г	p89h03.xt Scares fetal lung NbHL19W Homo saplens cDNA clone IMAGE:1931189 3'
27665 2.54 28766 0.68 287767 0.68 30072 2.58 32473 6.21 35638 2.1 26626 2.83		A1333429.1 EST		
28766 0.68 28767 0.68 30072 2.58 32473 6.21 3.48 3.5638 2.1		4W813906.1 EST	EST_HUMAN R	RC3-ST0197-130400-017-h02 ST0197 Homo sapiens cDNA
28767 0.68 30072 2.58 32473 6.21 3.48 3.638 2.1	7.00-4/10	3E280477.1 EST	EST_HUMAN 6	601155321F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3138893 5'
32473 6.21 32473 6.21 3.46 35638 2.1	1.0E-47 B	3E280477.1 EST	EST_HUMAN 6	601155321F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3138893 5'
32473 6.21 3.46 35638 2.1 26626 2.83	1.0E-47 A	4W813906.1 EST	EST_HUMAN R	RC3-ST0197-130400-017-h02 ST0197 Homo sapiens cDNA
35638 2.1	1.0E-47 A	A1880886.1 EST	EST HUMAN R	at19e06.x1 Barstead acrta HPLRB9 Homo sapiens cDNA clone IMAGE:2355586 3' similar to gb:M22995 RAS-RELATED PROTEIN RAP-1A (HUMAN);
35638 2.1		,		hi84a11.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2978972.3' similar to gb:M26326 KFRATIN: TYPE I CYTOSKEI ETAL 18 (HUMAN):
26626 2.93	-	Ī		Papio hamadryas alcohol dehydrogenase class I (ADH) gene, 6' region
26626 2.93	٠.			Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively
	9.0E-48 A	4F223391.1 NT		peolids
		BF359947.1 ES	EST_HUMAN C	CM2-MT0100-310700-290-f05 MT0100 Homo saplens cDNA
18525 31208 0.89	9.0E-48	BE888196.1 ES	EST_HUMAN 6	60(511714F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3913106 5
0.89		3E888196.1 ES	EST_HUMAN 6	601511714F1 NIH_MGC_71 Hano sepiens cDNA clane IMAGE:3913106 6'
	_			at75h09.x1 Barstead colon HPLRB7 Homo saplens cDNA clone IMAGE:2377889 3' similar to TR:O60844
31702 0.68				060844 HOMOLOG OF RAT ZYMOGEN GRANULE MEMBRANE PROTEIN.;
19095 31838 0.77	9.0E-48 A	AU123240.1 ES	EST_HUMAN A	AU123240 NT2RM1 Homo sepiens cDNA clone NT2RM1000978 5
23329 36330 3.28	9.0E-48 B	BE393813.1 EST	HUMAN	601310479F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632083 5'
1.66	8.0E-48	4501900 NT		Homo sapiens aminoacylase 1 (ACY1), mRNA
13819 1.36	8,0E-48	4501900 NT		Homo saplens eminoacylase 1 (ACY1), mRNA

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3096	15650	28061	2.89		8.0E-48 AW768477.1	EST_HUMAN	hk61b03.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707 BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
3096	15850	28062	2.89	8.0E-48 AV	V768477.1	EST_HUMAN	hk81b03.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' sImiliar to gb:X64707 BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
3944	16479	28889	9.0	8.0E-48	4504116	NT	Homo sapiens glutamate receptor, lonotropic, kalnate 1 (GRIK1) mRNA
508	13082		2.23	7.0E-48 AB	033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
909	13082		7.22		AB033035.1	TN	Homo sapiens mRNA for KIAA1209 protein, partial cds
1526	14058	26521	0.94			LN	Homo sapiens tousled-like kinase 1 (TLK1), mRNA
1645	14176	26645	3.41	7.0E-48	F730038 NT	TN	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
8069	19447		28.19	7.0E-48	11416831 NT	NT.	Homo sapiens histidyl-tRNA synthetase (HARS), mRNA
3592	16134	28547	0.71	6.0E-48 AI		EST_HUMAN	wi69h03.x1 NCI_CGAP_Kid12 Homo sapiens cDNA done IMAGE:2398613 3'
6364	18922	31657	0.92		AB006955.1	NT	Homo sapiens mRNA for AIE-75, complete cds
7170	19883	32708	1.04	6.0E-48	11420995 NT	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
7957	24840	33259			6.0E-48 AB046844.1	NT	Homo saplens mRNA for KIAA1624 protein, partial cds
7967	24640	33260	0.82		6.0E-48 AB046844.1	LN	Homo sapiens mRNA for KIAA1624 protein, partial cds
9425	21857	34774	1.85		6.0E-48 AF026816.1	IN	Homo sapiens putative oncogene protein mRNA, partial cds
9724	22147	35076	2.02	6.0E-48	11427428 NT	NT	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA
							2445b06.s1 Stratagene hNT neuron (#937233) Homo saplens cDNA clone IMAGE:632627 3' similar to
9826	22229		3.28		AA189080.1	EST_HUMAN	contains Alu repetitive element
3274	17982		1.43			N	Homo saplens phosphodiesterase 1A, calmodulin-dependent (PDE1A) mRNA
5032	17642	29914	1,44	5.0E-48	7662479 NT	TN	Homo sapiens KIAA1084 protein (KIAA1084), mRNA
11353	23717	36777	2.51		5.0E-48 AW890299.1	EST_HUMAN	MR0-NT0039-010500-002-f08 NT0039 Homo sapiens cDNA
2728	15218	27733	1.03		4.0E-48 R45715.1	EST_HUMAN	Ha140-f Adult heart, Clontech Homo sapiens cDNA clone a140-f
10738	23176		5.98		4.0E-48 AI620420.1	EST_HUMAN	tu47a02.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2264154 3'
1417	13951	. 26406	1.14		AV690964.1	EST_HUMAN	AV690964 GKC Homo sapiens cDNA clone GKCDRE12 5'
1921	14440	26942	18.71			NT	Homo saplens chromosome X open reading frame 6 (CXORF6) mRNA
1921	14440	26943	18.71		4885170 NT	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
3396	15942	28354	0.95		3.0E-48 AF172453.1	IN	Homo sapiens opicid growth factor receptor mRNA, complete cds
3629	16169	28579	1.15		3.0E-48 AW664531.1	EST_HUMAN	ht14b12.x1 NCI_CGAP_GU1 Hamo septens cDNA clone IMAGE:2972255 3' simiter to SW:DCRB_HUMAN P56555 DOWN SYNDROME CRITICAL REGION PROTEIN B.;
4283	li		0.68		AA009541.1	EST_HUMAN	204g03.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429844 5'
6185	1	31452	2.03		3.0E-48 BE084571.1	EST_HUMAN	MR4-BT0667-060400-201-e10 BT0657 Homo saplens cDNA
7442	19945		66.0		AF087913.1	۲	Human endogenous retrovirus HERV-P-T47D

Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ. ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8925	21359		3.61	3.0E-48	3.0E-48 AA659930.1	EST_HUMAN	nv03f05.s1 NCL_CGAP_Pr22 Homo sepiens cDNA clone IMAGE:1219137 3' similar to contains PTR5.b1 PTR5 repetitive element ;
10858	23098	36077	4.43	3.0E-48		EST_HUMAN	UI-H-BW1-ani-e-10-0-UI s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082267 3'
47	L		1.24	2.0E-48		EST_HUMAN	first? Regional genomic DNA specific cDNA library Homo sepiens cDNA clone CR17-26
1251	13789		0.61	2.0E-48	2.0E-48 H24278.1	EST_HUMAN	ym55e10.r1 Soares Infant brain 1NIB Homo saplens cDNA clone IMAGE:52182 6' similar to SP:M6B_MOUSE P36803 MEMBRANE GLYCOPROTEIN ;
					Γ		TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylαr-HGSC project⊏TCBA Homo
4568	17085		1.2			EST_HUMAN	sapiens cDNA clone TCBAP3842
8609		31360	62'0		2.0E-48 AA613171.1	EST_HUMAN	no18g01.s1 NCI_CGAP_Phe1 Hamo sapiens cDNA clone IMAGE:1101072.3'
8609	18667	31361	62'0			EST_HUMAN	no18g01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072.3'
8025	20457	33330	4.37			IN	Homo sapiens mRNA for KIAA1501 protein, partial cds
8025			4.37		2.0E-48 AB040934.1	IN	Homo sapiens mRNA for KIAA1501 protein, partial cds
6		07000	,		44408228	F)4	Homo sapiens v-rel avian reticulcendotheliosis viral oncogene homolog A (nuclear factor of kappa light
8894	21328	1			AV7434	EST HIMAN	AV743451 CB Home spales cDNA clone CBCCGG10 5
11743					2.0F-48 AA465007.1	EST HUMAN	2x80c03,r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:810052 5'
12095	L				2.0E-48 BE737154.1	EST HUMAN	601305084F1 NIH_MGC_39 Homo sapiens cDNA done iMAGE:3639782 5'
99		25080	2.3		7706534 NT	NT	Homo sapiens cisplatin resistance-associated overexpressed protein (LOC51747), mRNA
898	13451	25899	7.31	1.0E-48	4502166 NT	IN	Homo sapiens emyloid beta (A4) precursor protein (probase nextn-ll, Atzheimer disease) (APP), mRNA
1102	1_					Ę	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA
1102	13647		1.3	1.0E-48	7657430 NT	Ę	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA
1328	13864	26314	4.78	1.0E-48	5032032 NT	Z	Homo saptens RNA binding motif protein 6 (RBM6) mRNA
1873	14395	26888	7.29	1.0E-48	AL163302.2	ᅜ	Homo saplens chromosome 21 segment HS21C102
3484	16008	28429	1.04	1.0E-48	AL163246.2	F	Homo sapiens chromosome 21 segment HS21C048
5305	17805	30171	1.41	1.0E-48	M10976.1	N	Human endogenous retroviral DNA (4-1), complete retroviral segment
6613	19163	31913	1.07	1.0E-48	A1889077.1	EST_HUMAN	td17c01.x1 NCI_CGAP_Co16 Homo sepiens cDNA clane IMAGE:2075904 3' sImilar to TR:014588 014588 SIMILARITY TO U73941;
							td17c01.x1 NCI_CGAP_Co16 Homo sapiens cDNA clane IMAGE:20759043' similar to TR:O14588 O14588
6613		31914				EST HUMAN	SIMILARITY TO U73941;
6849			1.09	1.0E-48	Y18000.1	NT	Homo saplens NF2 gene
6950			0.64		AB028994.1	NT	Homo saplens mRNA for KIAA1071 protein, partial cds
6950					AB02899	NT	Homo saplens mRNA for KIAA1071 protein, partial cds
7709	9 20154	33012	2.68	1.0E-48	4755137 NT	NT	Homo saplens huntingtin (Huntington disease) (HD) mRNA

Table 4
Single Exon Probes Expressed in Lung

Most Similar				1
Most Similar		Homo saplans B cell linker protein (SLP66), mRNA 15d6 Human retina cDNA randomly primed sublibrary Homo saplens cDNA Mus musculus MysPDZ mRNA for myosin containing PDZ domain, complete cds Mus musculus MysPDZ mRNA for myosin containing PDZ domain, complete cds Mus musculus T-box 20 (Tbx20), mRNA matchall S (CSP_CGCB1 Homo saplens cDNA clone IMAGE:1184021 5' Human Inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor tisphosphate receptor type IIB, complete cds Human inositol 1.4.5 tisphosphate receptor tisphosphate rece	NECONAL TRO LEIN 34 (RUMAIN); ge.Mz003z Mouse LLNeps protein micha from a repetitive element, complete (MOUSE); 601457738F1 NIH_MGC_66 Homo seplens cDNA done IMAGE:3861272 5' 601457738F1 NIH_MGC_66 Homo seplens cDNA done IMAGE:3861272 5'	DKFZp761A138_s1_761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138 3' hd44e02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:095636 095636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;
Most Similar (Top Hit Acession Value Value Value 1.0E-48 AB033071.1 1.0E-48 AB033071.1 1.0E-48 AB033071.1 1.0E-48 BF304683.1 1.0E-48 BF304683.1 1.0E-48 W26785.1 8.0E-49 AB026497.1 8.0E-49 AB026497.1 8.0E-49 AB026417 8.0E-49 AB02681.1 8.0E-49 AB02381.1 7.0E-49 AB0281.1		NT HUMAN NT HUMAN NT HUMAN NT HUMAN NT HUMAN NT HUMAN EST_HUMAN EST_HUMAN	EST HUMAN EST HUMAN	EST_HUMAN EST_HUMAN
Most Similar (Top) Hit BLAST E Value Value 1.0E48 B 1.0E48 B 1.0E48 B 1.0E48 B 1.0E48 B 1.0E49 B 8.0E49	Top Hit Acessian No.	11429808 W28785.1 AB028497.1 10048417 AA642035.1 AB00881.1 AB00881.1 AF29990 6729990 6729990 6729990 6729990 6729990 AL120937.1 AL120937.1	AW731740.1 BF038269.1 BF038269.1	_
935ion 1.07 1.07 1.07 1.08 9.22 1.09 1.196 1.198	Most Similar (Top) Hit BLAST E Value		6.0E 49	6.0E-49
	Expression Signal	4.33 9.68 3.68 3.68 3.68 1.02 1.42 1.39 1.39 1.39 1.42 1.42 1.42 1.42 1.42 1.44 1.44 1.44	20.64 1.25	0.67
ORF SEQ ID NO: 34841 34863 35687 35687 35686 31661 31661 31662 31662 31664 35606 25407 25406 25407 25407 25407 25408 25407 25408 25407 25408 25407 25408 25407 25408 254	ORF SEQ ID NO:		26223 26379 26380	31385
Exon SEQ ID NO: 221640 221646 222685 22685 22685 22685 22685 22685 22685 22685 22685 22685 22685 22685 22685 22685 22685 22685 22685 12887 12885				
Probe SEQ ID NO: 9486 9525 9763 10284 11703 1026 10636	Probe SEQ ID NO:	10284 (5359	203 1388 1388	4132

Top Hit Descriptor	AU140742 PLACE4 Hamo seplens aDNA alone PLACE4000148 6'	hd44e02.x1 Soeres_NRL_T_GBC_S1 Hamo seplens cDNA clone IMAGE:2912378 3' strnifer to TR:095636 095636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II. ;	UI-H-BI3-alo-a-05-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:3068048 3'	EST77625 Pancreas tumor III Homo saplens cDNA 5' end	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end	429c08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:451694 3'	Homo saplens chromosome 21 segment H921C010	Homo saplens chromosome 21 segment HS21C010	क29c07.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610860 5' stmiler to TR:Gz33226 Gz33226 RTVL-H PROTEIN. ;contains LTR7.t3 LTR7 LTR7 repetitive element ;	Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds	Homo sapiens similar to ribosomal protein S27 (metaliopanstimulin 1) (H. sapiens) (LOC63362), mRNA	x08b01 x1 NCI_CGAP_UM Homo sepiens cDNA done IMAGE:2675593 3' similar to WP:B0350.2B	CENTOS., Homo saniens mRNA for ankorin B (440 kDa)		Homo sepiens mKNA for enkyrin B (440 kDa)	Homo sapiens UDP-N-acety-elpha-D-galactosamins polypeptide N-acetylgalactosaminyltransferase 8 (GalNac-T8) (GALNT8), mRNA	Homo sapiens UDP-N-acety-alpha-D-galactosamine polypeptide N-acety/galactosaminytransferase 8 // Polytectory (CAI http://mpn/A	Homo septens mRNA for KIAA0356 protein, partial cds	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds	z/90/05.r1 NCI_CGAP_GCB1 Homo septens cDNA clone IMAGE:682977 51	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	H.sapiens mRNA for acetyl-CoA carboxylase	Human type IV collagen (COL4A6) gene, exon 40	EST25e12 WATM1 Hamo saplens cDNA clane 25e12	EST42672 Endometrial tumor Homo sapiens cDNA 5' end
Top Hit Databese Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN			r_HUMAN	П		Γ	TO TOWAN		N	N	Ę	L Z	N.	LN N	EST_HUMAN		NT	LN	NT	EST_HUMAN	EST HUMAN
Top Hit Acession No.	1140742.1	6.0E-49 AW511225.1					Г				11436355 NT		4.0E-49 AW 108333.1	T		11525737 NT	4460E797 NIT	B0023	7662209 NT	4.0E-49 AF182034.1			4.0E-49 AF240786.1		3.0E-49 U46999.1		3.0E-49 AA337561.1
Most Similar (Top) Hit BLAST E Value	6.0E-49 Al	6.0E-49	6.0E-49	6.0E-49	6.0E-49	6.0E-49	5.0E-49 ₽	6.0E-49 ≠	5.0E-49	5.0E-49 U17714.1	5.0E-49	20	4.0E-49	10.1	4.0E-49	4.0E-49	4 05 40	4.0E-49	4.0E-49	4.0E-49/	4.0E-49		4.0E-49	3.0E-49 X68968.1	3.0E-49	3.0E-49 H39479.1	3.0E-49
Expression Signal	0.77	0.59	2.63	3.17	3.17	4.14	8.23	8.23	4.27	5.82	8.48	3	37.01	3	0.65	0.73	ç	0.57	0.78	0.43	4.31		2.97	0.98	2.33	11.67	1.85
ORF SEQ ID NO:	32092	33203		36820	36821		25716		26783	27712	28204		20022		32997	33030	10000		33724								36524
Exan SEQ ID NO:	19325	20335	<u> </u>	乚			L	13283	14297	15197	15787		13110	ı	20140	20170	22,700		L		乚	L	24206			Ш	23496
Probe SEQ ID NO:	6782	7896	11049	11400	11400	12091	732	732	1221	2707	3235		7805		7695	7726	47.00	7989	8412	8440	11941		12035	22.7	5080	7901	11071

	1						
Probe SEO ID NO:	SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11562	23909	36994	2.06			EST_HUMAN	oz98d02.xf Soares, senescent fibroblasts, NbHSF Homo seplens cDNA olone IMAGE:1682403 3' similar to gb:M31470 RAS-LIKE PROTEIN TC10 (HUMAN);contains Alu repetitive element;contains element MER22 repetitive element;
980	13245		2.21		Γ	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo saplens cDNA
3181	15734	28153	1.47			EST HUMAN	yx23d06.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:282571 67
3558	16100	28515	79.0	2.0E-49		TN	Homo sapiens RNA binding protein II (RBMII) gene, complete cds
			,				oz88d02.xf Soares, senescent fibroblasts. NbHSF Homo sapiens cDNA clone IMAGE:1682403 3' similar to db:M31470 RAS-LIKE PROTEIN TC10 (HUMAN); contains Alu repetitive element contains element MER22
4854	17366	29748	1.31	2.0E-49 AI	167357.1	EST_HUMAN	repetitive element;
4867	17379	29766	0.64	2.0E-49	2.0E-49 BF511846.1	EST_HUMAN	UI-H-BI4-aps-d-02-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3088638 3'
7116	19649	32445	1.03	2.0E-49	2.0E-49 AV717938.1	EST_HUMAN	AV717838 DCB Homo septens cDNA clone DCBALB01 6'
8703	21138		1.89	2.0E-49		EST_HUMAN	EST02558 Fetal brain, Stratagene (cat#938206) Homo sapiens cDNA clone HFBCY50
12046	24795		1.75			Z	Homo sapiens SNCA isoform (SNCA) gene, complete cds, atternatively spliced
922	13476		6.6		1.0E-49 BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:3862086 5'
1576	14107	26570	6.41	1.0E-49	1N 288784	ĮN.	Homo sapiens keratin 18 (KRT18) mRNA
1778	14303		2.13			EST_HUMAN	601115769F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3356273 5'
5615	18202	30600	3.31	ļ	1.0E-49 BF131007.1	EST_HUMAN	601820053F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:4052052 5
6385	18942	31679	0.94		1.0E-49 H18291.1	EST HUMAN	ум48h04.r1 Soares adult brain N2b5HB65Y Homo sepiens cDNA clone IMAGE:171703 5' similar to SP:GBG1 HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT:
6391	18948	31684	1.08		AW964640.1	EST_HUMAN	EST376713 MAGE resequences, MAGH Homo saplens cDNA
7665	20111	32962	0.58			EST_HUMAN	AV703000 ADB Homo seplens cDNA clone ADBCVD11 5'
7665	20111	32963	99.0			EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCVD11 5
7871	20117	32971	2.94		1.0E-49 BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5
7671	20117	32972	2.94			EST_HUMAN	601290330F1 NIH_MGC_8 Homo sepiens cDNA clone IMAGE:3620863 5
7762	20206	33068	2.56		1.0E-49 N25884.1	EST_HUMAN	w/8g12.s1 Soares_placenta_8to9weeks_2NbHP8to8W Homo sepiens cDNA clone IMAGE:258406 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7762	20208	33069	2.56		1.0E-49 N25884.1	EST HUMAN	w78g12.s1 Soures, placenta, 8to9weeks, 2NbHP8to8W Homo sapiens cDNA clone IMAGE:258406 3' similar to db:X85873 KINESIN HEAVY CHAIN (HUMAN):
9337	21769	34672	1.38		1.0E-49 BE409340.1	EST HUMAN	601300892F1 NIH_MGC_21 Homo saplens CDNA clone IMAGE:3635398 57
10134	22535		1.41		1.0E-49 AL043129.2	EST_HUMAN	DKFZp434D2423_r1 434 (synonym: htes3) Homo sepiens cDNA clone DKFZp434D2423 5'
10842	23276		221		1.0E-49 AB020335.1	NT	Homo sapiens Pancreas-specific TSA305 mRNA, complete cds
11078	23503	36533	4.3		7366	NT	Homo saplens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11567	23913		1.51		BE159343.1	EST_HUMAN	MR0-HT0407-010200-006-f02 HT0407 Homo saplens cDNA
11935	24147		3.22	1.0E-49	11418322 NT	. LN	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA

Top Hit Database Source	Homo sapiens gene for AF-8, complete cds	F Homo sapiens glycine N-methyltransferase (GNMT) gene, complete cds	EST_HUMAN 601176250F1 NIH_MGC_17 Homo septents cDNA clone IMAGE:3531588 5'	F Homo sapiens chromosome 21 segment HS21C002		F Homo sepiens mRNA for VIP receptor 2	T Homo sapiens actinin, alpha 1 (ACTN1) mRNA		T Homo sepiens p47 (LOC51674), mRNA	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA	EST_HUMAN QV0-BT0703-280400-211-e08 BT0703 Homo sapiens cDNA	EST_HUMAN RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA	Π		П	EST_HUMAN wm55g11.x1 NCI_CGAP_Ut2 Home stplens cDNA clone IMAGE:2439908 3'	EST_HUMAN 601589565F1 NIH_MGC_7 Homo saplens cDNA done IMAGE:3943577 5'	╗		EST_HUMAN EST182775 Jurkat T-cells VI Homo sepiens cDNA 6' end	InI45h10.s1 NCI_CGAP_Pr4 Homo sapiens cDNA clone IMAGE:1043883 similar to contains PTR5.t3 PTR5 EST HUMAN repetitive element:	T_HUMAN	r Homo sapiens chromosome 21 segment HS21 C048		EST_HUMAN QV1-BT0681-280300-127-f12 BT0681 Homo saplens cDNA	Homo sapiens gene for fukutin, complete cds	Human endogenous retrovirus RTVL-H2	EST_HUMAN ob03f06.s1 NCI_CGAP_Kid3 Homo saplens cDNA clone IMAGE:1322627 3'	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 EST HUMAN Cardiomycoaithy associated gene 6	
Top Hit Acession No.	AB011399.1 NT	AF101475.1 NT	BE295758.1 E	AL163202.2 N	X95097.2 NT	X95097.2 NT	4501890 NT	7706394 NT	7706394 NT	4826658 NT	BE089591.1 E	Γ	BF091922.1 E				BE794381.1 E		AA312079.1 E	AA312079.1 E	AA557683.1 E		AL163248.2 NT	40683	BE087536.1 E	AB038490.1 NT	M18048.1	AA746142.1	AW755264.1	9317
Most Similar (Top) Hit BLAST E Value	1.0E-49	9.0E-60	9.0E-50	8.0E-50	8.0E-50	8.0E-50	8.0E-50	8.0E-50	8.0E-50	8.0E-50	7.0E-50	7.0E-50	7.0E-50		7.0E-50	7.0E-50	6.0E-50	 8.0E-50	6.0E-50	6.0E-50	6.0E-50	4.0E-50	4.0E-50		4.0E-50	4.0E-50	3.0E-50	3.0E-50	3.0E-50	3.0E-50
Expression Signal	1.35	1.48	0.88	2.59	2.2	2.2	3.25	4.7	4.7	4.1	0.81	0.84	0.84		0.7	37.35	0.7	4.81	11.14	11.14	4.98	2.07	1.07	0.61	1.1	2.5	6.47	1.3	1.02	0.48
ORF SEQ ID NO:	30808			25192	25724	,		27408		27652	25610	32706	32707			35984				36027						36566		28230	28694	Ш
Exan SEQ ID NO:	24579	١,			13300		14278				13202	19882	19882		- 1		16887		23042	23042	21835	_1				23527	14410	15813	16291	Ш
Probe SEQ ID NO:	12609	5094	6742	174	739	739	1751	2382	2382	2648	638	7169	7169	-	88	10537	4365	 8788	10597	10597	9403	8	3426	6694	7683	11146	1889	3262	3752	7048

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Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7046	19580	32374	0.48	3.0E-50	11419317 NT	IN	Homo saplens protein tyrosine phosphatase, non-receptor type 12 (PTPN12), mRNA
7146	19859	32678	1.5	3.0E-50	11421514 NT	TN	Homo sapiens similar to sema domain, immunoglobulin domain (ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
8175	20597	33481	6.42	3.0E-50	AF233436.2	NT	Homo saplens FYVE domath-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
8175	20697	33482	5.42	3.0E-50	AF233436.2	Ā	Homo saplens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete ods
9905	22307	35250	1.21	3.0E-50	AB046818.1	Ę	Homo sapiens mRNA for KIAA1598 protein, partial cds
9913	L		1.03	3.0E-50	11418514	Į.	Homo sapiens t-complex 10 (a murine top homolog) (TCP10), mRNA
10386			1	3.0E-50	AB0022	Z	Human mRNA for KIAA0299 gene, partial cds
11216		35842	12.88	3.0E-50	1 ~ 1	ΙŃ	Homo sapiens CTL2 gene
80			5.58	2.0E-50	AF055066.1	Į.	Homo sapiens MHC class 1 region
1108		26092	5.69	2.0E-50		¥	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
1472			10.6		AF138303.1	M	Homo sapiens decorin D mRNA, complete cds, alternatively spliced
4277			0.59		D86424.1	NT	Mus musculus mRNA for high-sulfur keratin protein, partial cds
4838			0.98	2.0E-50		EST_HUMAN	MR3-SN0066-040500-008-f01 SN0066 Homo sapiens cDNA
4838			0.98	2.0E-60	AW869159.1	EST_HUMAN	MR3-SN0066-040500-008-f01 SN0066 Homo saplens cDNA
5390	l	30244	2.17	2.0E-50		EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA done IMAGE:4309943 5'
2380	$oldsymbol{\perp}$		2.17	2.0E-50	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo septens cDNA clone IMAGE:4309943 51
7271			0.64		AU124065.1	EST_HUMAN	AU124085 NT2RM2 Homo sapiens cDNA done NT2RM2001609 5
8862			1.35		AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8862			1.35		•	TN	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8969	_1		4.82	2.0E-50		NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8989			4.92	2.0⊑-50	X06956.1	LN.	Human HALPHA44 gene for alpha-tubulin, exons 1-3
9957	22359		1.54	2.0E-50	9910293 NT	LN L	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
9957	22359		1.54	2.0E-50	l i	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
248	12849		2.09			EST_HUMAN	PMS-BN0137-290300-002-g11 BN0137 Homo sepiens cDNA
248	12849		2.08		BE007080.1	EST_HUMAN	PM3-BN0137-290300-002-g11 BN0137 Homo sapiens cDNA
479		26470	2.18	1.0E-50	-	NT	Homo sapiens chromosome 21 segment HS21C009
2258	_!		11.31	1.0E-50	AJ271735.1	LN	Homo sapiens Xq pseudoautosomal region; segment 1/2
8246			0.54	1.0E-50	AJ271735.1	TN	Homo sapiens Xq pseudoautosomal region; segment 1/2
10173	22674	35541	1.48	1.0E-50	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
6284	18846	31565	0.88	9.0E-51	AW511225.1	EST_HUMAN	hd44602x1 Sogres_NFL_T_GBC_S1 Homo septens cDNA clone IMAGE:2912378 3' simitar to TR:093638 C96638 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6542		31835	0.74	9.0巨-51	9.0E-51 AA744837.1	EST_HUMAN	ny67h03.s1 NCI_CGAP_GCB1 Home sapiens cDNA clone IMAGE:1283381 3'
9569		34921	1.02		9.0E-51 AA043738.1	EST_HUMAN	2k51c09.r1 Soares_pregnant_uterus_NbHPU Homo saplens oDNA clone IMAGE:486352 5
11229		35858	1.64	9.0E-51	9.0E-51 H89078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo saplens cDNA done IMAGE:253210 5
11229	22881	35859	1.64		9.0E-51 H89078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA done IMAGE:253210 5
11478	23836	36904	2		9.0E-51 AA885514.1	EST_HUMAN	am10h02.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1466451 3' similar to SW:CAYP_CANFA P10463 CALCYPHOSINE;
4606	17122	29507	8.28		8.0E-51 AA610842.1	EST HUMAN	np88e09.s1 NCI_CGAP_Lu1 Homo sepiens cDNA clone IMAGE:1142440 3' similar to gb:X12871_ma1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
5312	L					NT	Homo saplens PAK2 mRNA, complete cds
7614		32915				NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
8183					11439587 NT	LN L	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
3244	16795	28213			7.0E-51 AW889219.1	EST_HUMAN	QV4-NT0028-200400-180-d05 NT0028 Homo sapiens cDNA
3339	15886		0.99		7.0E-61 AW274720.1	EST_HUMAN	xx34e03.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2895664 3' sImilar to TR:Q9Z340 Q9Z340 ATYPICAL PKC SPECIFIC BINDING PROTEIN:
4183			1.46		AL079628.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: https3) Homo sapiens cDNA done DKFZp434B2229 5
4183			1.46	7.0E-51 AL	AL079628.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: https://doi.org/10.000/0000000000000000000000000000000
4373			2.7		7.0E-51 AW295603.1	EST_HUMAN	UI-H-BW0-aip-b-05-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729817 3'
5260	17761	30130	96'0		7.0E-51 AW188265.1	EST_HUMAN	xj94d09.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2664881 3'
1924	14443	26946	4.58	6.0E-51	7657266 NT	NT	Homo sapiens KIAA0929 protein Msx2 Interacting nuclear target (MINT) homolog (KIAA0929), mRNA
3449	15993	28412	17.3	6.0E-51	7657266INT	FA.	Homo saplens KIAA0929 protein Msx2 Interacting nuclear target (MINT) homolog (KIAA0929). mBNA
4328	16850	29235		L	9910553 NT	N.	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
4328		29236	0.77	6.0E-51	9910553 NT	FN	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
6293			1.34	6.0E-51	X01788.1	N	Human haptoglobin related (Hpr) gene exon 3
6304			6.13	•	6.0E-61 AF070083.1	TN	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, expn 4
6304					AF07008	١	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
7142					4506736 NT	TN	Homo saplens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
7297					11416751 NT	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC56990), mRNA
7380		30388	2.34		11429665 NT	IN	Homo sapiens cerebral cell adhesion molecule (LOC51148), mRNA
9822	22225				7661535 NT	IN	Hamo sapiens B9 protein (B9), mRNA
11023		36469	1.73	6.0E-51	11526289 NT	L	Homo sapiens interlaukin 17 receptor (IL17R), mRNA
11285	23650	36697	2.44	6.0E-51	5453849 NT	FN	Homo saplens protein phosphatase 2, regulatory subunit B (B56), siphe isoform (PPP2R5A) mRNA

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Тор Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11285	23650	3698	2.44	6.0E-51	6453949 NT	IN	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
814		26809	11.57	5.0E-51 AI	AL163203.2	N	Homo sapiens chromosome 21 segment HS21C003
828		26823	2.04	5.0E-51		IN	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1017			1.01	5.0E-51 A	AL133204.1	NT	Novel human gene mapping to chomosome X
2515	15016	27628	6.26	5.0E-51	6.0E-51 AJ007558.1	TN	Homo sapiens mRNA for nucleoportn 155
3958		28902		5.0E-51	5.0E-51 M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
3958	·			5.0E-51	M30938.1	IN	Human Ku (p70/p80) subunit mRNA, complete cds
6189	17702	29008	1.56	6.0E-61	6.0E-61 AB037832.1	ΤN	Homo sapiens mRNA for KIAA1411 protein, partial cds
11050	23476	36501	6.3	5.0E-51	5803136 NT	TN	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA
139	12745	25165	6.47	3.0E-61 A	AI587348.1	EST_HUMAN	tr81c09.x1 NCI_CGAP_Pan1 Homo septiens cDNA clone IMAGE:2224720 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
1207	13748		10.7	3.0E-61 A	AI587348.1	EST HUMAN	tr81c09.x1 NCI_CGAP_Pan1 Homo sepiens cDNA clone IMAGE:2224720 3' similar to gb:M26326 KERATIN_TYPE I CYTOSKELETAL 18 (HUMAN);
4340		29265		3.0E-51	3.0E-51 AL159142.1	NT	Novel human gene mapping to chomosome 22
							ve47c98.rf Soares Infant brain 1NIB Homo sepiens cDNA clone IMAGE:53233 5' similar to ob:M14123 cds4
8036	20523	33403	1.83	3.0E-51	3.0E-51 R15914.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);contains LTR5 repetitive element;
9243	21675		4.89	3.0E-51	3.0E-51 M29063.1	TN	Human hnRNP C2 protein mRNA
12282	24373		1.9		3.0E-51 AF003528.1	F	Homo sapiens X-linked anhidroitio ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
3							Homo saplens ubiquitin protein ligase E3A (human papilioma virus E6-associated protein, Angelman
os Z	12270	25,000	2.13 0.8		4507788INI	NI ECT LI MAN	SYNGIONS) (UDESA) MINNA BATOREROAET NIIH MAC 44 Homo contons CONA close IMA CE ASA7483 R'
208	L			L	2.0E-51 BE391063.1	EST HUMAN	601285694F1 NIH MGC 44 Homo saplens CDNA clone IMAGE:3807463 5
1686	i		5.1		2.0E-61 AA233352.1	EST HUMAN	z/30e/5.f.l Stratagene NT2 neuronal precursor 837230 Homo sapiens cDNA clone IMAGE:664880 6' similar to TR:6233228 G233228 RTVL-H PROTEIN ; contains LTR7.t3 LTR7 repetitive element:
3731	乚				AI492415.1	EST HUMAN	ti27g03.x1 NCI_CGAP_Kld11 Homo saplens cDNA clone IMAGE:2131732.3'
4530			0.85		2.0E-51 AW137828.1	EST_HUMAN	UI-H-BI1-adj-d-02-0-UI.s1 NCI_CGAP_Sub3 Homo saplens cDNA clone IMAGE:2716851 3'
5695	18280	30703	0.49	2.0E-51	2.0E-51 AI732851.1	EST_HUMAN	obs409.x5 NOI_CGAP_K1d5 Homo sepiens cDNA done IMAGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
5695	18280		64.0		AI732851.1	EST HUMAN	ob3400.x5 NCI_CGAP_KId5 Homo sepiens cDNA clone IMAGE:1325609 3's tmiler to SW:NME1_MOUSE_ P35436 GLUTAMATE (NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
6318	1 1	31606			2.0E-51 BE782015.1	EST_HUMAN	601470446F1 NIH_MGC_67 Hamo saplens cDNA clane IMAGE:3873563 5'

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO: 77773 77842 9133 9133 9133 9701 10328 10328 11097 1007 100	Exan SEQ ID NO: 20216 20378 21666 21787 22170 22726 22726 22726 22736 18280 18280 14054 16954 16954 16954	ORF SEQ ID NO: 33246 34470 34770 34770 3650 35724 30703 30906 30906 25143	Expression Signal 1.58 1.46 0.99 0.99 1.76 1.63 1.22 1.22 1.34 4.96 1.02 1.34 4.96 1.3	Most Similar (Top) Hit BLAST E Value 2.0E-51 2.0E-51 2.0E-51 2.0E-51 2.0E-61 3.0E-61 3	Top Hit Acession No. No. AF218927.1 7862349 BE901994.1 BE901994.1 11037084 AIR17078.1 BE166980.1 AV682474.1 AA378559.1 AI732851.1 AI732851.1 AI732851.1 AI732851.1 T1419159 4503528 AV742248.1	Top Hit Database Source Source NT NT EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	Top Hit Descriptor Top Hit Descriptor Top Hit Descriptor Homo saplens diacylglycerd kinase lota (DGKI) gene, exon 23. Homo saplens cell recognition molecule Caspr2 (KIAA0888), mRNA 601676787F1 NIH_MGC_21 Homo seplens cDNA clone IMAGE:3958613 6' 601676787F1 NIH_MGC_21 Homo seplens cDNA clone IMAGE:3958613 6' Homo seplens cell recognition molecule Caspr2 (KIAA0888), mRNA 1674607.x1 NIL MGC_21 Homo seplens cDNA clone IMAGE:3256808 3' similar to SW:TRKC_HUMAN 1674607.x1 NCI_CGAP_CGB Homo seplens cDNA clone IMAGE:2236808 3' similar to SW:TRKC_HUMAN 1674607.x1 NCI_CGAP_CGB Homo seplens cDNA clone IMAGE:325609 3' similar to SW:NME1_MOUSE EST91288 Synovial sercoma Homo seplens cDNA clone IMAGE:325609 3' similar to SW:NME1_MOUSE EST91288 Synovial sercoma Homo seplens cDNA clone IMAGE:325609 3' similar to SW:NME1_MOUSE EST91288 Synovial sercoma Homo seplens cDNA clone IMAGE:325609 3' similar to SW:NME1_MOUSE EST91288 Synovial sercoma Homo seplens cDNA clone IMAGE:325609 3' similar to SW:NME1_MOUSE EST91288 Synovial sercoma Homo seplens cDNA clone IMAGE:325609 3' similar to SW:NME1_MOUSE EST91288 Synovial sercoma Homo seplens cDNA clone IMAGE:325609 3' similar to SW:NME1_MOUSE EST91288 Synovial service Image Inducible replacements (trithorex (Droscphila) homolog); trenslocated to, 4 (MLLT4), mRNA Homo seplens small inducible cryckine subfamily A (Cys-Cys), member 16 (SCYA15) mRNA Homo seplens small inducible cryckine subfamily A (Cys-Cys), member 15 (SCYA15) mRNA Homo seplens small inducible cryckine subfamily A (Sys-Cys), member 15 (SCYA15) mRNA
8180	1					EST_HUMAN EST_HUMAN	te39g02.xf Soares_NHMIPu_S1 Homo sepiens cDNA clone IMAGE:2089106 3/ 295a07.xf Soares_feta_liver_spleen_fNFLS_S1 Homo saplens cDNA clone IMAGE:446500 3' similar to contains THR.t3 THR repetitive element;
158		25178				EST_HUMAN NT	nw21g02.s1 NCI_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' strailar to contains THR.t3 THR repetitive element ; H.sapiens mRNA for terrinin-5, alpha3b chain
1656	14187	26659	1.95	8.0E-62 8.0E-52	11968028 NT	TN	Homo sapiens hypothetical protein FLJ13556 similar to N-myo downstream regulated 3 (FLJ13556), mRNA Homo sapiens hypothetical protein FLJ13556 similar to N-myo downstream regulated 3 (FLJ13556), mRNA
4008	14187	26859	7.61	8.0E-52	11988028 NT	Į,	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA

Top Hit Descriptor	Homo saplens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFBI), mRNA	Homo sapiens transforming growth factor, beta-Induced, 68kD (TGFBI), mRNA	2259a06.r1 Soares_parathyroid_tumor_NbHPA Homo septens cDNA clone IMAGE:328578 6' similar to	QV3-BT0537-271299-049-d07 BT0637 Homo saplens cDNA	Homo saplens S164 gene, partial cds. PS1 and hypothetical protein genes, complete cds, and S171 gene, partial cds	qg44f04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838047 3'	tz48h04./J NCI_CGAP_Bm52 Homo saplens cDNA clone IMAGE:2291671 6' similer to SW:PGBM_MOUSE Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE	PROTEOGLYCAN CORE PROTEIN PRECURSOR;	H.sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA18H7	Homo sapians SH3-containing protein SH3GLB1 mRNA, complete cds	Homo sapians nucleopartn 155kD (NUP165) mRNA	Homo sapiens T-cell lymphoma Invasion and metastasis 1 (TIAM1) mRNA	w89b02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400459 3'	Homo saplens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA	Homo saplens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA	601440687F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3915836 5'	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA	Homo saplens Ran GTPase activating protein 1 (RANGAP1), mRNA	Homo sapiens DNA for Human P2XM, complete ods	Homo sapiens hypothetical protein FLJ10676 (FLJ10676), mRNA	Human endogenous retroviral DNA (4-1), complete retroviral segment	Human endogenous retroviral DNA (4-1), complete retroviral segment	Homo sapiens KIAA0439 mRNA, partial cds	bb66b07.y1 NIH_MGC_9 Home saplens cDNA clone IMAGE:3030421 6' similar to gb:X16493 M.musculus mRNA for Zof-1 zinc finger protein (MOUSE):	602084710F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248891 5	Novel human gene mapping to chromosome 20, similar to membrane transporters	qa56e05.s1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:1690784 3'
Top Hit Database Source	IN	LN LN	NT	EST LIMAN	EST HUMAN	L L	EST HUMAN		EST HUMAN	LN	TN	NT	TN	EST_HUMAN	NT	LN	NT	EST_HUMAN	NT	NT	NT	NT .	NT	ĮN	N	EST HUMAN	EST HUMAN	NT	EST_HUMAN
Top Hit Acession No.	11988028 NT	11416585 NT	11416585 NT	7 0E-52 WE8474 4	6.0E-52 BE072409.1	AF109907.1	6.0E-52 AI208794.1		6.0E-52 BE048172.1	5.0E-52 Z78898.1	AF257318.1	4758843 NT	4507500 NT	AI766814.1	5453965 NT	4506132 NT	4506132 NT	6220	11417035 NT	11418177 NT	AB002059.1	11437042 NT	2.0E-52 M10976.1	2.0E-62 M10978.1	2.0E-52 AB007899.1	2.0E-52.BE207576.1	2.0E-52 BF677892.1	AL137188.3	2.0E-52 AI141802.1
Most Similar (Top) Hit BLAST E Value	8.0E-52	8.0E-52	8.0E-52	7 0E.52	6.0E-52	6.0E-52	8.0E-52		6.0E-52	5.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52 BE	4.0E-52	4.0E-52	4.0E-52 AB	3.0E-52	2.0E-52	2.0E-62	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52
Expression Signal	7.61	0.61	0.61	4.4	0.67	4.25	1.17		2.2	2.29	1.07	1.07	0.61	1.26	3.21	1.35	1.35	1.95	6.98	5.33	6.92	14.46	2.32	2.32	1.08	1.08	10.23		1,09
ORF SEQ ID NO:	26660	33328	33327	JABON		28701					26864	28777	28883					_ [34366					i	26759	27430	_	29949	Ц
Exan SEQ ID NO:	14187	20455	20455	24782	1	14221	18576		23413	16990	14193	14293	16474							_1		1		13150	14274	14910	ı	17583	17622
Probe SEQ ID NO:	4008	8023	8023	0350	1218	1692	6002		10984	4470	1682	1787	3939	4790	5420	5538	6638	8860	8023	11857	12396	4108	629	579	1747	2408	2692	5073	5115

Top Hit Descriptor	qa58e05.s1 Soares_NhHMPu_S1 Hano saplens cDNA clone IMAGE:16907843'	IL3-CT0214-231299-053-E12 CT0214 Homo saplens cDNA	Homo saplens Interleukin 21 receptor (IL21R), mRNA	Homo saplens mRNA for KIAA1081 protein, partial cds	os45d12.y5 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1808311 5	Homo saplens transducin (beta)-like 1 (TBL1) mRNA	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA	Macaca mulatta beta-tubulin mRNA, complete cds	245g05.s1 Soares_fetal_liver_splean_1NFLS_S1 Homo saplens cDNA clone IMAGE:453272.3'	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 6 (16/D) (NADH-coenzyme Q reductase) (NDUFS5) mRNA	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	wj49c04.x1 NCI_CGAP_Lu19 Homo saplens cDNA clone IMAGE:2406150 3' similar to contains THR.b2	THR repetitive element;	w49e04.x1 NCI_CGAP_Lu19 Homo sapiens oDNA clone IMAGE:2406160 3' similar to contains THR.b2	i nk iepouwe eenien ;	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5	zd49g12.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:344038 51	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA	xn72s07 x1 NCI_CGAP_CML1 Homo saplens cDNA clone IMAGE:2700036 3' similar to contains Alu remaititue element contains element i TR2 remaititus element i	windfulls of Source NET CRC S1 Home senions oDNA clone IMAGE:23808493' similar to TR:016859	Q16859 CARBOXYLESTERASE;	zu75h12.s1 Soares_testis_NHT Homo saptens cDNA clone IMAGE:743879 3'	Homo saplens glutamate-ammonia ligase (glutamine synthase) (GLUL) mRNA	Homo saplens anylsulfatase D (ARSD), transcript variant 1, mRNA	pol=reverse transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1,	Genomio, 680 nt]	Human P-glycoprotein (MDR1) gene, exon 4	Human PMS2 related (hPMSR2) gene, complete cds	Human aldolase C gene for fructose-1,6-bisphosphate aldolase.	Homo sapiens basic transcription factor 2 p44 (btt2p44) gene, partial ods, neuronal apoptosia trhilbitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
Top Hit Database Source	EST_HUMAN	EST_HUMAN	TN	IN	EST_HUMAN	IN	F	F	EST_HUMAN	LN.	۲	¥		EST_HUMAN		ESI TOMAN	EST HUMAN	EST_HUMAN	11417990 NT	EOT LIMAN	NGMOI 1	EST_HUMAN	EST_HUMAN	N-	Ę		NT	ΤN	NT	TN	TN
Top Hit Acesslan No.	AI141802.1	AW848041.1	11141868 NT	2.0E-52 AB029004.1	AI792146.1	5032158 NT	5032158 NT	AF147880.1	2.0E-52 AA778795.1	4758789 NT	5730038 NT	5730038 NT		A1831462.1	7 007 7001	AI831402.1	AV715377.1	W70260.1	2:0E-62 11417990	2 OE 62 AW236267 4	AW 250251.1	AI808985.1	1.0E-52 AA634445.1	4504026 NT	4502238 NT		1.0E-52 S61070.1	1.0E-52 M29426.1	1.0E-62 U38964.1	1.0E-52 X07292.1	U80017.1
Most Similar (Top) Hit BLAST E Value	2.0E-52 AI	2.0E-62 A	2.0E-52	2.0E-52	2.0E-62	2.0E-52	2.0E-52	2.0E-62	2.0E-52	2.0E-52	2.0E-52	l		2.0E-52 A	L	Z.UE-52 AI	2.0E-62	2.0E-52	2:0E-62	İ		2.0E-52 AI	1.0E-52	1.0E-52	1.0E-52		1.0E-52			1.0E-52	1.0E-62 U
Expression Signal	1.09	4.15	1.88	1.02	0.75	9.0	9.0	8.63	6.0	1.06	4.8	4.8		2.63		2.63	2.24	1.86	2.84	44 93	20:11	5.6	1.48	13.21	12.29		1.57	4.98	2.38	2.52	0.63
ORF SEQ ID NO:	29985	31235	31998	L		33738			34638		35495			36420			36437			30440				26394	L		27986	L	32038		33784
Exan SEQ ID NO:	17622	18550	19247	\mathbf{L}_{-}	19810	20840	20840	21538	21731	22025	L	L	L	23409	L.			23563	23727	24072		24231	13123	乚	14944		15575	18174	19276	20353	20888
Probe SEQ ID NO:	5115	5974	6700	7086	7353	8428	8426	9106	8288	9678	10127	10127		10980	000	10980	10991	11110	11365	11851	5	12078	551	1404	2442		3020	9899	6730	7915	8473

Top Hit Descriptor	Homo sapiens chromosome 21 segment HS21 C027	Rattus norvegicus putative four repeat ion channel mRNA, complete ods	df08g05.y1 Morton Fetal Cochlea Homo saplens cDNA clone IMAGE:2483145 5'	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (hPTPCAAX1) mRNA, complete cds	Homo saplens proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2), mRNA	Homo sapiens protein kinase, cAMP-depandent, regulatory, type II, beta (PRKAR2B) mRNA	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3	Homo saplens predicted osteoblast protein (GS3786), mRNA	CM2-UM0038-280200-106-f07 UM0038 Homo saplens cDNA	601904771F1 NIH_MGC_64 Homo sapiens cDNA clone IMAGE:4132793 5'	##4107.x1 NCI_CGAP_Bm23 Home sapiens cDNA clone IMAGE:2089077 3' similar to contains THR.t1	THR repetitive element;	Homo sapiens heterogeneous nuclear ribonucieoprotein C (C1/C2) (HNRPC) mKNA	RC3-ST0197-151099-011-g10 ST0197 Homo saplens cDNA	Homo saplens chromosome 21 segment HS21C085	Homo sapiens chromosome 21 segment HS21C085	HSC3ID041 normalized Infant brain oDNA Homo sapiens cDNA clone c-3id04	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	complete cds)	IL2-UM0081-240300-055-D03 UM0081 Homo sapiens cDNA	QV3-BT0381-270100-073-d06 BT0381 Homo sapiens cDNA	Homo sapiens 28S proteasome subunit 9 mRNA, complete cds	Homo sapiens MIL1 protein (MIL1), mRNA	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA	H.sapiens graf gene	H.saplens graf gane	GIF=growth inhibitory factor [human, brain, Genomic, 2015 nt]	Homo saplens FGFR1 oncogene partner (FOP), mRNA	Homo saplens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end	Homo sapiens hyaluronic acid receptor (HAR), mRNA
Top Hit Database Source	IN	N	EST_HUMAN	NT	NT	IN	NT	N	EST_HUMAN	EST_HUMAN		EST_HUMAN	L	EST_HUMAN	NT	Į.	EST_HUMAN	EST_HUMAN	EST HUMAN		N	EST HUMAN	EST_HUMAN	NT	FZ.	EST_HUMAN	FN	R	F	FZ.	TN	EST_HUMAN	NT
Top Hit Acession No.	.163227.2	1.0E-52 AF078779.1	V020370.1		11426321 NT	4506064 NT	9.0E-63 AF001446.1	7661713 NT	7.0E-63 AW797342.1	7.0E-63 BF238465.1		421782.1	4768543 NT	5.0E-53 AW813563.1	4.0E-53 AL163285.2	4.0E-53 AL163285.2	13080.1	4.0E-53 BF128701.1	4.0E-53 BF128701.1		3.0E-53 AB026898.1	3.0E-53 AW803563.1	3.0E-53 BE069344.1	3.0E-53 AF001212.1	11526297 NT	3.0E-53 BE160025.1		0388.3	372043.1	5901953 NT	11426423 NT	2.0E-53 AA368556.1	7705394 NT
Most Similar (Top) Hit BLAST E Value	1.0E-52 AI	1.0E-52	1.0E-62 AV	1.0E-52 U48288.1	1.0E-62	9.0E-63	9.0E-63	9.0E-53	7.0E-63	7.0E-63		7.0E-53 AI	6.0E-53	5.0E-53	4.0E-53 /	4.0E-53	4.0E-53 F1	4.0E-53	4.0E-53		3.0E-53 /	3.0E-53	3.0E-53	3.0E-53	3.0E-53	3.0E-53	3.0E-53	3.0E-53 Y10388.3	3.0E-53 S7	3.0E-53	3.0E-53	2.0E-53 /	2.0E-53
Expression Signal	1.08	6.0	0.87	3.38	7.02	0.78	1.03	18.58	1.64	3.11		7.14	8.48	1.83	1.9	1.9	-	3.14	3.14		5.65	0.62	2.83	96'0	0.95	0.93	0.83	0.83	11.96	98.6	1.4	5.85	1.77
ORF SEQ ID NO:		34820		35978		28731	29326	30011	. 36939				29030		25070	25071		36432	36433						31152	31803	32823	32824	34199				26973
Exan SEQ ID NO:	21410	21888	22818	22885	23059	16330	16935	17646	23862	24131		-		24167	12672	12672	22272	23417	23417		15093			18266	18472	19062	18887	19987	21288	21815	24056		14469
Probe SEQ ID NO:	8977	9467	10416	10548	10616	3783	4414	6142	11504	11907		12367	4115	11955	51	51	6986	10988	10988		2597	4628	4992	6881	5883	9208	7637	7537	8854	9383	11787	475	1950

Probe	Exan.	ORF SEQ	Expression	Most Similar (Top) Hit	Top Hit Acession	Top Hit	Ton Hit Describitor
ğ Ö Ö		Ö NÖ:	Signal	BLAST E Value	o Z	Source	
2222	14732	27252	4.35	2.0E-53 U	78027.1	TN	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2443	14945		18.29	2.0E-53	4502316 NT	TN	Homo sepiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E; V-ATPase, subunit E; V-ATPase, subunit E)
2679	15172	27680	1.28	2.0E-63	4767915 NT	Ŋ	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA271) mRNA
2679	15172	27681	1.28	2.0E-63	4757915 NT	N	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translooated to, 1; cyclin D-related (CBFA2T1) mRNA
3177	15730			2.0E-53	7705687 NT	TN	Homo sapiens leucine aminopeptidase (LOC51056), mRNA
4072			2.29	2.0E-53 N		NT	Human Krueppek-related DNA-binding protein (TF34) gene, partial cds
5682		30668		2.0E-53	2.0E-53 BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-g03 CT0399 Hamo sapiens cDNA
2882	\Box				2.0E-63 BF334740.1	EST_HUMAN	PM1-CT0398-170900-001-g03 CT0396 Homo saplens cDNA
8541		33876				EST_HUMAN	EST387707 MAGE resequences, MAGN Hamo sapiens cDNA
9625					_	EST_HUMAN	2822865.5prlme NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822665 5'
1475	14007	26473	1.22			NT	Homo sapiens Xq pseudoautosomal region; segment 2/2
3387		28347	1.5		1.0E-53 AB026898.1	IN	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4158	16685				AV714177.1	EST HUMAN	AV714177 DCB Homo saplens cDNA clone DCBAWF09 5'
5054	17564		0.84		1.0E-53 BE296386.1	EST_HUMAN	601176725F1 NIH_MGC_17 Homo septens cDNA clane IMAGE:3531919 5'
5410	17808	30259			1.0E-53 AW957429.1	EST_HUMAN	EST369619 MAGE resequences, MAGE Homo sapiens cDNA
7062	19596	32391			BF364201.1	EST_HUMAN	CM4-NN1029-150800-543-e02 NN1029 Homo saplens cDNA
7697			0.89		1.0E-53 BE012071.1	EST_HUMAN	RC5-BN1058-270400-031-D01 BN1058 Homo saplens cDNA
8288					1.0E-53 AA249072.1	EST_HUMAN	Il9571.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens oDNA 5'
9400					X79536.1	NT	H.saplens mRNA for hnRNPcore protein A1
11519					X98411.1	NT	H.sapiens mRNA for myosin-IE
11519		36960	4.09		X98411.1	NT	H.saplens mRNA for myosin-IE
11648					AW2454;	EST_HUMAN	2822943.3prime NIH_MGC_7 Hamo septens cDNA clone IMAGE:2822943 3'
3212		28184			4504116 NT	NT	Homo sapiens glutamata receptor, lonotropte, kainate 1 (GRiK1) mRNA
5555			6.19	9.0E-54		NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
213			1.61		BE386785.1	EST_HUMAN	601272863F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3614031 6'
1810	14333				4504610 NT	INT	Homo saplens insulin-like growth factor 2 receptor (IGF2R) mRNA
6233	18798	31507	25.54	8.0E-54	8005700 NT	NT	Homo saplens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
399	13015	25438	1.37		7.0E-64 AA812637.1	EST_HUMAN	ai79c12.c1 Soares_bstls_NHT Homo sapiens cDNA clone 1377046 3' similar to contains MER30.t3 MER30 repetitive element ;

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1808	14329	26822	1.85	7.0E-54 Y	16645.1	TN	Homo saplens mRNA for monocyte chemotactic protein-2
2110	14623	27145	11.34	7.0E-54 N	27177.1	EST_HUMAN	w68d12.s1 Scares_placenta_8tc9weeks_2NbHP8tc9W Homo sepiens cDNA clone IMAGE:257399 3' similar to contains LTR7.b3 LTR7 repetitive element;
10135	22536	36504	2.38	7.0E-54	11417222 NT	IN.	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA
10886	23318	36316	3.08	7.0E-54	N 8923698	TN	Hamo sapiens golgin-like protein (GLP), mRNA
10886	L	36316	3.08	7.0E-54	TN 8923698	LN	Homo sapiens golgin-like protein (GLP), mRNA
10959	i _		2.74	7.0E-54	9506684 NT	NT	Homo saplens hypothetical protein (FLJ20498), mRNA
11061	23487		2.42	7.0E-54 A	Al160189.1	EST_HUMAN	qb67g03.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1705204.3' shrillar to contains OFR.t1 OFR repetitive element;
24	12844	25033	2.67	6.0E-54 A	B003618.1	TN	Homo sapiens DNA for MICB, exon 4, 6 and partial cds
400	l.	25439	0.69	6.0E-54	8922148 NT	NT	Hamo sapiens hypothetical protein DKFZp434Mq35 (DKFZp434Mq35), mRNA
400	13016	25440	69.0	6.0E-54	8922148 NT	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3245			0.82	6.0E-54	8922148 NT	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
4018	16551	28948	1.33	6.0E-54	4502872 NT	NT	Homo sapiens chloride channel 8 (CLCN8) mRNA
4494	17012	29396	56.0	6.0E-54	AV754746.1	EST_HUMAN	AV764746 TP Homo sapiens cDNA clone TPGAAC10 5'
4901		29784	1.12	8.0E-54	4505806	NT	Homo sapiens phosphatidylinosital 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
4834	17445		1.32	6.0E-64	Y09846.1	NT	H.saplens shc pseudogene, p66 Isoform
5100	17445		2.35	6.0E-54	Y09846.1	ΙN	H, saplens she pseudogene, p66 Isoform
187	12789		118.52	4.0E-54 A	AF110103.1	NT	Tupala belangeri beta-actin mRNA, partial cds
							EST177696 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate
88				4.0E-54 A	A306764.1	EST_HUMAN	dehydrogenase
1781	┙			4.0E-54	38521.1	LN.	Human mRNA for KIAA0077 gene, partial cds
1781	14306	26798	2.27	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
3160	15713		1.79	4.0E-54	Al935088.1	EST_HUMAN	wd26d11.x/ Soares_NFL_T_GBC_S1 Homo septens cDNA clone IMAGE:2329269 3' similar to TR:002711 002711 PRO-POL-DUTPASE POLYPROTEIN ;
7768	3 20209		9.0	4.0E-54	BE544889.1	EST_HUMAN	801075004F1 NIH_MGC_12 Homo saplens cDNA clone IMAGE:3481017 6'
96		25126	9.4	3.0E-54	AA313487.1	EST_HUMAN	EST185371 Colon cardinama (HCC) cell line Homo sapiens cDNA 5' end
2485	14986		3.38	3.0E-54	AL110383.1	EST_HUMAN	DKFZp434E0731_r1 434 (synonym: htes3) Homo septens cDNA done DKFZp434E0731 5'
2555	15054		1.58	3.0E-54	AI908757.1	EST_HUMAN	IL-BT189-190399-007 BT189 Hamo sapiens cDNA
6195		31464	1.67	3.0E-64	4502434 NT	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA
7867				3.0E-54		EST_HUMAN	ai92c08.s1 Soares_parathyrold_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'
7867				3.0E-54	AA844061.1		al92c08.s1 Soares_parathyrold_turnor_NbHPA Homo sapiens oDNA clone IMAGE:1388270 31
8368	3 20783	33683	0.48		AI742822.1	EST_HUMAN	wg44b11.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2367933 3'

Table 4
Single Exon Probes Expressed in Lung

IIt Top Hit Descriptor ee	Homo saplens golgi autoantigen, golgin subfamily e, 5 (GOLGA5), mRNA		### ### ### ##########################		Г	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA	Homo sapiens nuclear antigen Sp100 (SP100) mRNA	nt78e09.s1 NCI_CGAP_Pr3 Homo capiens cDNA clone IMAGE:1204600 similar to contains element L1 AN repetitive element:	Т	AAN SW:CUL1_HUMAN Q13616 CULLIN HOMOLOG 1:			Homo sepiens mRNA for phospholipese C-bete-1b (PLCB1 gene)		Homo sapiens mitogen-activated protein kinase kinase kinase 3 (MAP4K3), mRNA	Homo sapiens mitogen-activated protein kinase kinase kinase kinase 3 (MAP4K3), mRNA	Homo sapiens chaperonin containing T-complex subunit 6 (CCT6) mRNA	Homo sapiens syncytin precursor, mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C001	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 14 (SCYA14) mRNA	AAN E43c11.y1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291348 5	Homo saplens KIAA0100 gens product (KIAA0100), mRNA	Homo saplens mRNA for KIAA1591 protein, partial cds	Homo sapiens mRNA for KIAA1591 protein, partial cds	Homo saplens EVI5 homolog mRNA, complete cds	. Homo saplens mRNA for KIAA0995 protein, partial cds	Home saplens mRNA for KIAA0995 protein, partial cds	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1), mRNA	Homo sapiens mRNA for brain ryanodine receptor, complete cds
Top Hit Database Source	NT.	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	IN	‡NT	FST HUMAN	_	EST_HUMAN	뉟	EST_HUMAN	Ę	EST_HUMAN	3NT	S NT	2NT	۱	۲	DNT 9	EST_HUMAN	7NT	ž	Ę	ž	N	Ę	A N T	Z
Top Hit Acessian No.	11434806 NT	BF345600.1	AA393362.1	AW954559.1	AW748965.1	5031900 NT	4507164 NT	AA655008 1		AW163175.1	AL163210.2	AW057524.1	AJ278314.1	AA63292		4508376 NT	4502642 NT	AF208161.1	AL163201.2	4759069 NT	BE047864.1	11426657 NT	AB046811.1	AB046811.1	AF008915.1	AB023212.1	AB023212.1	11426544 NT	AB0010
Most Similar (Top) Hit BLAST E Value	3.0E-54	3.0E-54	3.0E-54	3.0E-54	3.0E-54	2.0E-54	2.0E-54	2 0F-54		2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54		2.0E-54	2.0E-54	2.0E-54	2.0E-54	ŀ	
Expression Signal	4.01	4.93	4.31	4.43	2.37	12.79	1.57	•		3.88	2.71	1.44	0.7	5.01	0.65	0.65	2.17	1.28	11.38	1.81	1.22	4.44	11.16	11.18	0.92	0.72	0.72	9.65	4.21
ORF SEQ ID NO:		36285	36620	31019		25636	26388	26564		27465	27541	27824	28250		28791	28792			30176	30750	31125	31303	31419	31420	32346	32741	32742	32867	35122
Exon SEQ ID NO:	23238	23301	23578	24039	24930	13228	13931	14102		14949	15025	15404	15832	16076	16391	16391	16745	16991	17811	18316	18449	18615	18717	18717	19559	19912	19912	20013	1 1
Probe SEQ ID NO:	10801	10868	11126	11759	11806	98	1397	1570		2448	2628	2848	3283	3533	3855	3855	4220	4471	5311	5734	5870	8042	6149	6148	7023	7201	7201	7563	9783

					6		
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptar
10040	22442	35389	1.28	2.0E-54	11429127 NT	TN	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10131	22532	35500	0.84	2.0E-54		TN	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA
10131	22532	35501	0.84	2.0E-54	11416762 NT	. LN	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA
11447	23807		2.03	2.0E-54	7657454 NT	NT	Homo sapiens pescadilio (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
11455			1.87	2.0E-54		LN	Homo sapiens brefeldin A-Inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12301	L		1.74	2.0E-54	8567387	TN	Homo saplens period (Drosophila) homolog 3 (PER3), mRNA
4498	17016		1.34	1.0E-54 B	F315418.1	EST_HUMAN	601899230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128635 5'
	·					MAN HOD	AU077341 Sugano cDNA library Homo saplens cDNA clone Zn6C880 similar to 6'-end region of Human
12450	24489	95644	4.09		1.0E-54 AUU//341.1	EST HUMAN	GATILITE GUARATION delistration of the control of
10270	\perp		10.0		T	TIVE TO SERVICE TO SER	Home capies RERO date for RING fines metals
134			0.07		1	121	Traino expressor traino di marca de la companya processor de la company
1350			2.2			LN L	Homo sapiens RFB30 gene for KING finger protein
10968	33397		1.98		8.0E-55 AW 409714.1	EST_HUMAN	fh02a02.x1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:2960907 6
							hw08d08.x1 NCI_CGAP_Lu24 Homo saptens cDNA clone IMAGE:31823153's strntlar to TR:Q9Z1J8
11818	3 24074		1.24		8.0E-55 BE327189.1	EST_HUMAN	Q8Z1J8 45 KDA SECRETORY PROTEIN;
			•				y/26e04.rl Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127998 5' similar to
1108	┙		2.39		7.0E-55 R09346.1	ESI_HUMAN	SPICOOL BOVIN PIGES/ OF LOCAROME
9461	21892		1.6		889581.1	EST_HUMAN	ak28a11.s1 Scares_testis_NHT Homo saptens cDNA clone IMAGE:1407260 3'
9488	3 21919	34843	1.56	7.0E-55 AL	1139909.1	EST_HUMAN	AU139909 PLACE1 Homo saplens cDNA clone PLACE1011576 5'
10985	5 23414	36427	5.15		561056.1	EST_HUMAN	tq28f09.x1 NCI_CGAP_Ut1 Homo sapiens cDNA done IMAGE:2210249 3'
10985	5 23414	36428	5.15		7.0E-65 AI561056.1	EST_HUMAN	tq29f09.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:22102493'
12455	5 24853	-	4.79		7.0E-55 H23396.1	EST_HUMAN	ym57g07.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52444 5'
11268	3 23634	38998	2.73		6.0E-55 AB040934.1	뉟	Homo sapiens mRNA for KIAA1501 protein, partial cds
4823	17335	5 29715	1.07		5.0E-55 AW206021.1	EST_HUMAN	UI-H-BI1-afy-g-09-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2723536 3'
6891	19431	L	1.62	5.0E-55	4502240 NT	님	Homo saplens anjsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6894	19431	1 32207		5.0E-55	4502240 NT	NT	Homo saplens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
703	3 24621	1 32356		6.0E-55	4606962	F	Homo saplens persoxonase 2 (PON2) mRNA, and translated products
7033	L	L			4505952	LN TA	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
7466	19968	32802	1.16	9-30'S	7382477 NT	N	Horno saplens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 5, mRNA
7753	3 20197	33059	0.77	5.0E-55	11434422 NT	M	Homo saplens speckle-type POZ protein (SPOP), mRNA
9373	3 21805	5 34715	2.65	5.0E-55	4506302 NT	TN	Homo sepiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA
9564			1.49		BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo septens cDNA
10064	4 22465				5.0E-55 AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10064		5 35421	1.55		AB014511.1	NT	Homo saplens mRNA for KIAA0611 protein, partial cds

Table 4
Single Exon Probes Expressed in Lung

	Top Hit Descriptor	LL2), mRNA	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	3E Homo saplens cDNA	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMY1A1) mRNA	tein (GS3788), mRNA	tein (GS3786), mRNA	7j52b10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1 t3 L1 repositive element	Homo saplens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA	umma (90kD) (DGKG) mRNA	imma (80kD) (DGKG) mRNA	zyme E2 variant 1 (UBE2V1) mRNA	gion; segment 1/2	Homo saplens cDNA	nt HS21C010	601886576F2 NIH_MGC_17 Homo septems cDNA clone IMAGE:4120338 6	7809A09 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7809A09	3 Homo sapiens cDNA	nt HS21C084	ERV9)	1), complete retroviral segment	Homo saplens syntaxin-binding protein 1 (STXBP1) mRNA, and translated products	Homo saplens ublquith protein ligase E3A (human papilloma virus E6-associated protein, Angelman	6 Homo septems cDNA	UHHF-BN0-aks-f-08-0-UI.r1 NIH MGC 50 Homo sapiens cDNA clone IMAGE:3078275 57	am98h05.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains		MA done HEMBA1005583 5	Homo saplens mannose-6-phosphate receptor (cation dependent) (M6PR) mRNA	Oryctolagus cuniculus New Zsaland white elongation factor 1 alpha (Rabefla2) mRNA, complete ods	0v85g09.x1 Soares_testis_NHT Hamo saplens cDNA clane IMAGE:1844160 3'
Siligië Exull Plubes Expressed in Lung		Homo sapiens nel (ahicken)-like 2 (NELL2), mRNA	Homo sapiens pescadillo (zebrafish)	EST370064 MAGE resequences, MAGE Homo sapiens cDNA	Homo sapiens RNA binding motif pro	Homo sapiens predicted osteoblast protein (GS3786), mRNA	Homo sapiens predicted osteoblast protein (GS3786), mRNA	7j52b10.x1 Soares_NSF_F8_9W_O1	Homo sapiens proteasome (prosome	Homo sapiens proteasome (prosome,	Homo sapiens diacylgiycerol kinase, gamma (90kD) (DGKG) mRNA	Homo saplens diacyddycerol kinase, gamma (80kD) (DGKG) mRNA	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA	Homo sapiens Xq pseudoautosomal region; segment 1/2	RC2-UT0023-290700-011-f03 UT0023 Homo seplens cDNA	Homo saplens chromosome 21 segment HS21C010	601886575F2 NIH_MGC_17 Homo a	7B09A09 Chromosome 7 Fetal Brain	PM1-HT0603-090300-001-g08 HT0603 Homo sapiens cDNA	Homo saplens chromosome 21 segment HS21C084	Human endogenous retrovirus pHE.1 (ERV9)	Human endogenous retroviral DNA (4-1), complete retroviral segment	Homo saplens syntaxin-binding protei	Homo saplens ublquitin protein ilgase	CM1-HT0876-150800-357-403 HT0876 Homo sepiens cDNA	ULHF-BN0-aks-f-08-0-UI.r1 NIH MG	am98h05.s1 Stratagene schizo brain	THR.b2 THR repetitive element;	AU119344 HEMBA1 Homo septens cDNA done HEMBA1005583 6	Homo saplens mannose-6-phosphate	Oryotolagus cuniculus New Zealand v	Т
אום באסוו הור	Top Hit Database Source	NT	ĮΝ	EST HUMAN	NT	N-	N	FST HIMAN	NT	N.	TN	TN	Z,	NT	EST_HUMAN	Z.	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	NT	NT	NT	L L	EST HUMAN	EST HUMAN		EST HUMAN	EST_HUMAN	LΝ	F	EST_HUMAN
	Top Hit Acession No.	5453765 NT	11417972 NT	AW957994.1	4826973 NT	T861713 NT	T661713 NT	BF061411.1	4508180		4503314 NT	4503314 NT	4607794 NT	AJ271735.1	BE698671.1		BF303941.1	AA077156.1	BE178519.1	AL163284.2	X57147.1	M10976.1	4507296 NT	4507708 NT	BE719986.1	AW501988.1		AI002836.1	AU119344.1	4505060 NT	U09823.1	Al028718.1
	Most Similar (Top) Hit BLAST E Value	5.0E-55	5.0E-65	4.0E-55	4.0E-55	4.0E-65	4.0E-55	4.0E-55	4.0E-55	4.0E-55	4.0E-55	4.0E-55	4.0E-66	4.0E-55	4.0E-55	4.0E-65	4.0E-55	3.0E-55	3.0E-55	3.0E-55	2.0E-55	2.0E-55	2.0E-55	2.0E-55	2.0E-55	2.0E-55		2.0E-65	2.0E-55	1.0E-55	1.0E-55	1.0E-65
	Expression Signal	12	2.63	4.53	53.07	1.03	1.03	1.15	1.05	1.05	5.29	5.29	3.68	1.08	5.52	7.66	2.66	8.0	2.98	1.62	1.52	1,2	4.03	80	2.57	-	i	6.01	4.08	2.31	53.18	0.75
	ORF SEQ ID NO:	35561		25079	25671		26468		26985	26986	27039	27040	27238		30198			32270			25399		25645	27890		33310				25129	25213	25564
	Exan SEQ ID NO:	22594	24097	15275	13254	14002	14002	14073		14478	14526	14528					24040	19490	24000	24507	12977	13139	13233	15467	ı	24642				12716	12798	13161
	Probe SEQ ID NO:	10193	11848	29	691	1469	1469	1542	1980	1980	2010	2010	2205	2510	5340	8882	11760	6953	11694	12502	392	268	888	2912	4827	8009	7,70	¥	10728	8	195	591

Top Hit Descriptor	Homo sapiens mRNA for KIAA0903 protein, partial cds	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867027 6	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967027 5	Нотто sapiens SMA3 (SMA3), mRNA	Human mRNA for HLA-411E, a MHC class I molecule (major histocompatibility complex)	Homo sapiens mRNA for KIAA0406 protein, partial cds	Homo saplens mRNA for KIAA0406 protein, partial cds	Homo saplens CLP mRNA, partial cds	Homo saplens mRNA for KIAA1219 protein, partial cds	43c5 Human retina cDNA randomly primed sublibrary Homo septens cDNA	Homo sapiens chromosome 21 segment HS21C067	Homo saplens chromosome 21 segment HS21C010	yv44g03.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:245620 5	Homo sapiens DSCR6b mRNA, complete cds	Homo saplens DSCR5b mRNA, complete cds	RC5-BT0605-150200-031-B11 BT0605 Homo saplens cDNA	Homo sapiens PRO1851 mRNA, complete cds	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	Homo saplens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA	Homo sapiens phosphalpid scramblase 1 gene, complete cds	Homo sapiens phospholipid scramblase 1 gene, complete cds	Human Infant brain unknown product mRNA, complete cds	601237702F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3609552 5'	yn62g03.r1 Soares adult brain N2b5HB55Y Homo saptens cDNA clone IMAGE:173044 5' similar to contains	THR repetitive element;	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA	RC1-CT0252-231099-013-b07 CT0252 Hamo sapiens cDNA	RC3-BN0053-170200-011-h01 BN0053 Homo saplens cDNA	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA	CHR220038 Chromosame 22 exan Homo saplens cDNA clone C22_55 5'	Homo sapiens beta-tubulin mRNA, complete cds	Homo sapiens beta-tubulin mRNA, complete cds
Top Hit Database Source	TN	EST_HUMAN	EST_HUMAN	NT	LN	NT	TN	NT.	INT	EST_HUMAN	NT	NT	EST_HUMAN		NT	EST HUMAN	TN	ΗN	IN	IN	NT	NT	NT	NT	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	NT
Top Hit Acession No.	\B020710.1	3E277861.1	3E277881.1	5803174 NT	(13111.1	1.0E-55 AB007866.2	1.0E-55 AB007866.2		AB033045.1	N28189.1	AL163267.2	AL163210.2	V77261.1	4B037163.1	AB037163.1	3E077198.1	4F119856.1	11433048 NT	11433048 NT	11432994 NT	11432894 NT	AF224492.1	AF224492.1	J60960.1	BE379074.1		H19934.1	AW361213.1	AW361213.1	AW997712.1	W28189.1	H55099.1	AF141349.1	AF141349.1
Most Similar (Top) Hit BLAST E Value	1.0E-55 A	1.0E-55 B	1.0E-55 B	1.0E-55	1.0E-56	1.0E-55/	1.0E-55/	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55/	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-56	9.0E-56		7.0E-56	7.0E-58	7.0E-56	5.0E-58	5.0E-56	5.0E-58	4.0E-56	4.0E-56
Expression Signal	5.23	2.48	2.48	2.67	86.59	7.93	7.93	8.37	1.12	1.19	4.53	1.26	1.05	2.1	2.1	2.09	0.44	8.01	8.01	1.21	1.21	1.25	1.25	2.85	1.88		11.23	2.2	2.2	1.31	1.29	3.01	8.29	8.29
ORF SEQ ID NO:	26160	26918	26919		27442	27480		27666	27751	28346	28835	29227		29766	29767	30234	30796		31896	33969	33970	34026	34027	35822	33141		27692		33477	26699				25038
Exan SEQ ID NO:	13719	14420	14420	14730	14927	14968	14968	15039	15238	15932		16837	17295	17396	17396	17873	18340	19146	19146	21061	21061	21127	21127	22849	20278				20593	14219	22697			12649
Probe SEQ ID NO:	4177	1901	1901	2220	2424	2467	2467	. 2541	2748	3386	4003	4313	4781	4884	4884	6375	6769	9232	8595	8828	8626	8692	8692	11197	7838		2889	8171	8171	1690	10296	11940	29	29

Probe SEQ ID .NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2083	14597		6.0	4.0E-56	BF207586.1	EST. HUMAN	601862059F1 NIH_MGC_63 Homo septens cDNA clone IMAGE:4081551 5
2658			3.47	4.0E-58	4507728 NT	NT	Homo saplens tubulin, beta polypeptide (TUBB) mRNA
2658	15151	27663	3.47	4.0E-56	1N 821128 NT	TN	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2770	13116	25525	868	4.0E-56 A	F003528.1	TN	Homo sapiens X-linked anhidroitic ectodermal dysplasia protain gene (EDA), axon 2 and flanking repeat regions
2789	1				632488.1	EST HUMAN	wb09f08.x1 NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:2305191 3' similar to SW.DCOR_MUSPAP2119 ORNITHINE DECARBOXYLASE;
2789	!		2.6		632488.1	EST_HUMAN	wbosto8.x1 NCI_CGAP_GC8 Homo septens cDNA clone INAGE:2305191 3' similar to SW:DCOR_MUSPAP27119 ORNITHINE DECARBOXYLASE:
6580	19131	31877	6.1	4.0E-56	F217508.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
6580	19131	31878	6.1	4.0E-56		TN	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10380	22780		1.99		4.0E-56 AF043349.1	IN	Homo saplens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds
10701	23140				AI498066.1	EST_HUMAN	tm65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE::2163046 3'
10701			7.65	4.0E-56 AI	A1498066.1	EST_HUMAN	tm85g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163046 3'
1373	13908		1.33	3.0E-56	8924029 NT	NT	Homo sapiens hypothetical protein PRO1304 (PRO1304), mRNA
1752				3.0E-56		NT	Homo saplens 5'-3' exoribonuclease 2 (XRN2), mRNA
2062			1.73	3.0E-56	6912697 NT	NT	Homo sapiens oncogene TC21 (TC21), mRNA
3086					3.0E-56 AA325826.1	EST_HUMAN	EST28889 Cerebellum II Hamo saplens cDNA 5' end
3088		28048	1.62		3.0E-56 AA325826.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3845					3.0E-56 AF055066.1	LN	Homo sapiens MHC class 1 region
4410		28322	0.98		7657042 NT	TN	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
4452			4		AL.16326	NT	Homo sapiens chromosome 21 segment HS21 C068
4611	17127		2.8	3.0E-56	5902085 NT	NT	Homo sapiens superkiller viralickiic activity 2 (S. cerevisiae homolog)-like (SKIV2L), mRNA
5953	18529	31211	2.48	3.0E-56	4759163 NT	TN	Homo sapiens sparc/osteonectin, cwcv and kazal-like domains proteoglycan (tastican) (SPOCK) mRNA
5953		31212	2.48	3.05-56	4759163 NT	_F	Homo sapiens spardosteonectin, cwcv and kazal-like domains protooglycan (testicen) (SPOCK) mRNA
7278					-	۲	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA
7877		33089	0.41	3.0E-56	4504970 NT	N	Homo sapians LIM binding domain 2 (LDB2) mRNA
7787		33090	0.41	3.0E-56	4504970 NT	TN	Homo saplens LIM binding domain 2 (LDB2) mRNA
9226	1		6.46		11418704 NT	NT	Homo sapiens bone marphogenetic protein 5 (BMP5), mRNA
9902					D63479	N.	Homo sapiens mRNA for KIAA0145 protein, partial cds
10363	22763				11434956 NT	FN	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10525	_]	35952			3.0E-56 AB042556.1	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds

ORF SEQ Expression ID NO: Signal 36634 10. 36635 10. 36635 4.4. 36828 4.4. 30983 1.3 30984 1.3 25740 1.1 25740 1.1 25741 1.1	E)B		I op Hit Database Source NT NT NT NT NT EST HUMAN EST HUMAN EST HUMAN EST HUMAN	Top Hit Descriptor Homo seplens nuclear pore complex interacting protein (NPIP), mRNA Homo seplens nuclear pore complex interacting protein (NPIP), mRNA Homo seplens nuclear pore complex interacting protein (NPIP), mRNA Homo seplens NACP/Jahrha-svauclein dena exon 5
		046900 046900 046900 AA1998 BE0643 BE0643 BE0643 AB0376 AV7031	T HUMAN	-lomo saplens nuclear pore complex interacting protein (NPIP), mRNA Homo saplens nuclear pore complex interacting protein (NPIP), mRNA Homo sanlans NACP/ahrha-svnuclein dene, exon 5
277 228 228 34 440 440 441 441		U46900 U46900 U46900 BE0643 BE0643 AB0378 AV7031	T HUMAN	-lomo sapiens nuclear pore complex interacting protein (NPIP), mRNA Homo saniens NACP/alnha-svnuclein dene, exon 5
277 288 388 394 440 181 181		046900 046900 046900 04043 040643 040643 040643 040643 040643	T HUMAN	Home sanians NACP/ainha-synuclein dena exon 5
883 844 8440 81 81 81		AA1998 BE0643 BE0643 AB0378 AV7031	T HUMAN	וווווים פתלומום ובעיקו עוליים בליים ביים ביים ביים ביים ביים ביים
983 984 7740 918		AA1998 BE0643 BE0643 AB0378 AB0086 AV7031	T HUMAN	Homo sapiens NACP/alpha-synuclein gene, exon 5
1740 7741 918		AA1998 BE0643 BE0643 AB0378 AB0086 AV7031	T HUMAN	Homo sapiens cavedin 3 (CAV3), mRNA
5740 5741 7918		AA19981 BE06438 BE06438 AB03783 AB00868 AV70318		Homo sapiens cavadin 3 (CAV3), mRNA
5740 5741 7918 8481		BE06438 BE06438 AB03783 AB00868 AV70318		zq52a08.s1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:0452083'
5741 7918 8481		BE06438 AB03783 AB00868 AV70318	Γ	RC4-BT0310-110300-015-f10 BT0310 Homo saplens cDNA
7918		AB03783 AB00868 AV70318	NAMOR I CH	RC4-BT0310-110300-015-f10 BT0310 Homo saplens cDNA
28481		AB00868 AV70318	ΙN	Homo sapiens mRNA for KIAA1414 protein, partial cds
28481		AV70318	П	Homo sapiens gane for activin receptor type IIB, complete cds
	Ш		EST_HUMAN	AV703184 ADB Homo sapiens cDNA clone ADBCFG10 5
32814	Ц			Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
	L	1.0E-56 AF190930.1	N	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
28619	2.31 1.0	E-56 AW 589833.1	EST_HUMAN	hg23c11.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2946452 3'
28620	2.31 1.0	1.0E-56 AW 589833.1	EST_HUMAN	hg23c11.x1 NCI_CGAP_GC8 Homo saplens cDNA clone IMAGE:29464523'
32642	0.6 1.0	1.0E-56 AW 609520.1	EST_HUMAN	MR3-ST0203-180100-208-h02 ST0203 Hamo saplens cDNA
35434	1.8 1.0	1.0E-56 AW845987.1	EST_HUMAN	RC2-CT0163-220999-001-E02 CT0163 Homo saplens cDNA
	1.64 9.0	9.0E-57 AW 880885.1	EST_HUMAN	QV0-OT0033-070300-162-h03 OT0033 Homo saptens cDNA
29133	1 9.0	9.0E-57 4758279 NT		Homo sapiens EphA4 (EPHA4) mRNA
29134	1 9.0	9.0E-67 4768279 NT		Homo saplens EphA4 (EPHA4) mRNA
36892	2.91 9.0	9.0E-57 AB020981.1	₽ F	Homo sapiens mRNA for cyclin B2, complete cds
25020	0.88 8.0	8.0E-57 8923349 NT		Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
26326	2.89 8.0	8.0E-57 AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-f05 ST0234 Homo saplens cDNA
2500	8 7 8 0	8 OF -57 AW264500 1	EST HIMAN	xv05d10.x1 NCI_CGAP_Bm63 Homo sapiens cDNA clone IMAGE:2769251 3' similar to gb:U05875 INTERFERON.GAMMA RECEPTOR RETA CHAIN PRECLIRSOR ALLIMAN):
28811		. '	Т	2451412 of Scarae facile NHT Homo sanions CDNA clans IMAGE:757151 51
28325		_	, T.	Homo sapiens EphA4 (EPHA4) mRNA
28326	L			Homo saplens EphA4 (EPHA4) mRNA
29868		8.0E-57 4557630 NT		Homo sapiens glutamata receptor, Ionotrophic, AMPA 4 (GRIA4) mRNA
30012	0.59 8.0	BE2991	T HUMAN	600944440F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960864 5'
30590	2.54 8.0	8.0E-57 11418185 NT		Homo saplens aconitase 2, mitochondrial (ACO2), mRNA
				Homo sapiens mRNA for KIAA0898 protein, partial cds
32124	11.77 8.0	8.0E-57 AB023177.1	NTN	Homo sapiens mRNA for KIAA0960 protein, partial cds

Profit Exam OFFE ECT Top HIR Descriptor Top HIR Descriptor 9EQ D 1820 D 18.45T E P. Mack Shilling P. Mack Shilling P. Danbause P. Danb						}		
19350 10 NO; Signal 14.45 E NO. 10 NO; Signal 19350 32125 11.77 8.0E-57 AB023177.1 NT 1.20371 33237 0.17 8.0E-57 AB020844.1 NT 1.20371 33813 2.18 8.0E-57 AB020844.1 NT 1.20371 33813 2.18 8.0E-57 AB020844.1 NT 1.20371 33813 2.202 2.285 38640 3.78 8.0E-57 AB020844.1 NT 1.2033 25020 2.4318 8.0E-57 AB020844.1 NT 1.2033 25020 2.4318 8.0E-57 AB020844.1 NT 1.20416 2.2852 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.244 0.245 0	Probe SEO ID	Exan SEO ID	ORF SEQ	Expression	Most Similar (Top) Hit	Top Hit Acession	Top Hit Database	Top Hit Descriptor
19350 32125 11.77 8.0E-57 AB023177.1 NT 20371 33237 0.7 8.0E-57 AB023177.1 NT 20717 33612 2.18 8.0E-57 AB020644.1 NT P 20717 33613 2.18 8.0E-57 AB020644.1 NT P 20717 33613 2.18 8.0E-57 AB020644.1 NT P 20717 33610 2.18 8.0E-57 AB020644.1 NT P 20717 33640 3.78 8.0E-57 AB020644.1 NT P 20716 2.05 3.0E-57 AB020644.1 NT P NT 20716 3.0E-57 AB02064.1 NT NT NT NT 24216 8.0E-57 AB02064.1 NT NT<	Ö	Ö	Ö	Signel	BLAST E	d Z	Source	
20371 33237 0.7 8.0E-67 7 AB020644.1 NT 1 20717 33612 2.18 8.0E-67 AB020644.1 NT I 20717 33613 2.18 8.0E-67 AB020644.1 NT I 20717 33613 2.18 8.0E-67 AB020644.1 NT I 22863 36940 3.78 8.0E-67 AB020644.1 NT I 24316 30816 2.8 8.0E-67 AB020644.1 NT I 24316 30816 2.8 8.0E-67 AB02064.1 NT I 15064 27578 0.94 7.0E-67 AB02060.1 I	6089	19350		11.77	8.0E-57	.B023177.1	T)	Homo saplens mRNA for KIAA0960 protein, partial cds
20717 33612 2.18 8.0E-67 AB020644.1 NT 20717 33613 2.18 8.0E-67 AB020644.1 NT P 22863 25620 2.6 8.0E-67 AB020644.1 NT P 23863 36940 3.78 8.0E-67 AB02064.1 NT P 24316 30916 2.48 8.0E-67 AB02060.1 NT P 24319 30916 2.48 8.0E-67 AB02060.1 NT P 24319 26235 0.84 7.0E-67 AB02020.1 NT P 15761 28170 0.94 7.0E-67 AB02168.NT NT P 16761 28170 1.31 7.0E-67 AF012872.1 NT NT 16761 28824 2.07 7.0E-67 AF012872.1 NT NT 16420 28826 2.07 7.0E-67 AF012872.1 NT NT 16234 28626 1.2 A.0E-67<	7834	20371		0.7	8.0E-57	7662263	Į,	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
20717 33613 2.18 8.0E-67 AB020644.1 NT 1 12633 25020 2.8 8.0E-67 4802349 NT 1 23863 36940 3.78 8.0E-67 1143726 NT 1 24216 1.3 8.0E-67 7708528 NT 1 1 13788 26235 0.84 7.0E-67 705162 NT 1 16064 27578 0.94 7.0E-67 7657692 NT 1 16064 27578 0.94 7.0E-67 7657692 NT 1 16042 27579 0.94 7.0E-67 7657692 NT 1 16761 28180 1.31 7.0E-67 7242168 NT 1 16420 28824 2.07 7.0E-67 AF012872.1 NT NT 16420 28826 2.07 7.0E-67 AF012872.1 NT NT 16420 28826 2.07 7.0E-67	8302	20717			8.0E-57		ᅡ	Homo sapiens mRNA for KIAA0837 protein, partial ods
12633 25620 2.6 8.0E-57 8923349 NT I 23863 36940 3.78 8.0E-57 11431250 NT I 24216 1.3 8.0E-57 7016528 NT I 13788 26235 0.84 7.0E-57 7016528 NT 16064 27578 0.94 7.0E-57 7657692 NT 16064 27578 0.94 7.0E-57 7657692 NT 16761 28180 1.31 7.0E-57 7242168 NT 16720 28203 1.07 7.0E-57 7242168 NT 16420 28826 2.07 7.0E-57 AF012872.1 NT 16480 1.9 4.0E-57 AF020503.1 <	8302	20717						Homo sapiens mRNA for KIAA0837 protein, partial cds
23863 36940 3.78 8.0E-67 11431260 NT 24215 1.3 8.0E-67 7016528 NT 24215 30916 2.48 8.0E-67 7016528 NT 13788 26235 0.84 7.0E-67 705532 NT 15064 27578 0.94 7.0E-67 765562 NT 15064 27578 0.94 7.0E-67 765562 NT 15761 28179 1.31 7.0E-67 7242158 NT 16761 28243 1.07 7.0E-67 7242158 NT 16420 28824 2.07 7.0E-67 AF012872.1 NT 16420 28825 2.07 7.0E-67 AF012872.1 NT 16280 1 7.0E-67 AF01	11233	12633		2.6	8.0E-57	8923349		Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
24215 1.3 8,0E-67 7016528 NT 24319 30916 2.46 8.0E-67 7016528 NT 13788 26235 0.84 7.0E-67 AL003100.1 NT 15064 27578 0.94 7.0E-67 AL003100.1 NT 15064 27578 0.94 7.0E-67 7657502 NT NT 15761 28179 1.31 7.0E-67 7242158 NT NT 16761 28180 1.31 7.0E-67 7242158 NT NT 16761 28820 1.31 7.0E-67 AF012872.1 NT 16420 28820 2.07 7.0E-67 AF012872.1 NT 16284 2.07 7.0E-67 AF012872.1 NT 16284 2.07 7.0E-67 AF020898.1 NT 16284 2.6824 0.87 4.0E-67 A607798 NT 16145 2.7656 10.45 3.0E-67 A607798 NT 16146 27657 10.45	11505				8.0E-57	11431260		Homo sapiens Ras suppressor protein 1 (RSU1), mRNA
24319 30916 2.48 8.0E-57 11545732 NT 13788 26235 0.84 7.0E-57 AJ003100.1 NT 16064 27578 0.84 7.0E-57 AJ003100.1 NT 16064 27578 0.84 7.0E-57 7657502 NT 15761 28179 1.31 7.0E-57 7542158 NT 16761 28180 1.31 7.0E-57 7242158 NT 16420 28826 2.07 7.0E-57 AF012872.1 NT 16420 28826 2.07 7.0E-57 AF012872.1 NT 16420 28826 2.07 7.0E-57 AF012872.1 NT 16294 28626 1.9 4.0E-57 AF012872.1 NT 16294 28626 1.9 4.0E-57 AF020693.1 NT 16294 26824 0.87 3.0E-57 AA230278.1 EST_HUMAN 15145 27656 10.45 3.0E-57 AE676622.1	12047			1.3	8,0E-57	7019528	トフ	Homo sapiens monocarboxylate transporter 3 (SLC16A8), mRNA
1378B 26235 0.84 7.0E-57 AU003100.1 NT 16064 27578 0.94 7.0E-57	12200				8.0E-57	11545732	나	Homo saplens SH3-domain binding protein 1 (SH3BP1), mRNA
16064 27578 0.94 7.0E-67 7657562 NT 16064 27578 0.94 7.0E-67 7657562 NT 16761 28179 1.31 7.0E-67 7242158 NT 16761 28180 1.31 7.0E-67 7242158 NT 16720 28823 1.07 7.0E-57 AF012872.1 NT 16920 28826 2.07 7.0E-57 AF012872.1 NT 16930 1 7.0E-57 AF012872.1 NT 16234 28626 2.07 7.0E-57 AF012872.1 NT 16234 28626 1.9 4.0E-57 AF026693.1 NT 1639 3.74 5.0E-57 AL271735.1 NT 1639 1.9 4.0E-57 AB026898.1 NT 1639 1.0 3.0E-57 AL271735.1 ST HUMAN 15145 2765 10.45 3.0E-57 AE07789 NT 16234 0.87 3.0E-57 AE07789 NT	1250				7.0E-57	AJ003100.1	עד	Homo saplens GYS2 gene, exon 14
16064 27578 0.94 7.0E-57 7657562 NT 15761 28179 1.31 7.0E-57 7242158 NT 15761 28180 1.31 7.0E-57 7242158 NT 16420 28824 2.07 7.0E-57 AF012872.1 NT 16920 28825 2.07 7.0E-57 AF012872.1 NT 16930 1 7.0E-57 AF012872.1 NT 16294 28626 2.07 7.0E-57 AF012872.1 NT 16294 28626 1.9 4.0E-57 AF02663.1 NT 16294 28696 1.9 4.0E-57 AE026898.1 NT 13897 3.0E-57 ALZ30278.1 EST_HUMAN 15145 27657 10.45 3.0E-57 AE07788 NT 16807 27657 10.45 3.0E-57 AE07788 NT 16807 27657 10.45 3.0E-57 AE07788 NT 16807 27	2586	L				7657592	トフ	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
15761 28178 1.31 7.0E-67 7242158 NT 15761 28180 1.31 7.0E-67 7242158 NT 16420 28223 1.07 7.0E-67 7242158 NT 16420 28824 2.07 7.0E-67 AF012872.1 NT 16980 1 7.0E-67 AF012872.1 NT NT 16384 28626 2.07 7.0E-67 AF012872.1 NT 16294 28626 1.9 4.0E-67 AF020603.1 NT 16294 28696 1.9 4.0E-67 AB026898.1 NT 13897 3.0E-67 AA230278.1 EST_HUMAN 15145 27657 10.45 3.0E-67 AA230278.1 EST_HUMAN 16234 0.87 3.0E-67 AM853964.1 EST_HUMAN 16234 4.08 3.0E-67 AW853964.1 EST_HUMAN 16807 3.0E-67 AW853964.1 EST_HUMAN 16808 3.0E-67 AW853964.1 EST_HUMAN	2566					7657592	L	Homo sapiens sing GDS-ASSOCIATED PROTEIN (SMAP), mRNA
15761 28180 1.31 7.0E-67 7242158 NT 16725 28203 1.07 7.0E-67 6005979 NT 16420 28824 2.07 7.0E-67 AF012872.1 NT 16420 28825 2.07 7.0E-67 AF012872.1 NT 16880 1 7.0E-67 AF012872.1 NT 16880 1 7.0E-67 AF012872.1 NT 16294 26696 1.9 4.0E-57 AB026898.1 NT 13384 26624 0.87 3.0E-67 AB026898.1 NT 15145 27656 10.45 3.0E-67 AB026898.1 NT 16234 0.87 3.0E-67 AB026898.1 RST_HUMAN 16234 0.87 3.0E-67 AB02022.1 EST_HUMAN 16234 40.88 3.0E-67 AW853964.1 EST_HUMAN 16807 3.0E-67 AW853964.1 EST_HUMAN 16892 3.1723 3.51 3.0E-67 AW853964.1 <td< td=""><td>3209</td><td></td><td>L</td><td></td><td>7.0E-57</td><td>7242158</td><td>7</td><td>Homo saplens NME7 (NME7), mRNA</td></td<>	3209		L		7.0E-57	7242158	7	Homo saplens NME7 (NME7), mRNA
16785 28203 1,07 7.0E-57 6005979 NT 16420 28824 2.07 7.0E-57 AF012872.1 NT 16420 28826 2.07 7.0E-57 AF012872.1 NT 16980 1 7.0E-57 AF012872.1 NT 16980 1 7.0E-57 AF012872.1 NT 16980 1 7.0E-57 AF012872.1 NT 16294 28696 1.9 4.0E-57 AF026898.1 NT 13897 3.0E-57 AF026898.1 NT NT 13897 3.0E-57 AF026898.1 NT NT 15867 4.0E-57 AF026898.1 NT NT 15867 10.45 3.0E-57 AF026898.1 EST_HUMAN 16234 27657 10.45 3.0E-57 BE676822.1 EST_HUMAN 16807 27657 10.45 3.0E-57 BE676822.1 EST_HUMAN 16807 2896 0.97 3.0E-57 BE676822.1 EST_HUMAN 16808 3.1623 3.0E-57 BE676837.1 EST_HUMAN 16809 3.1723	3209	<u>L</u>	L		7.0E-57	7242158	느	Homo sapiens NME7 (NME7), mRNA
16920 28824 2.07 7.0E-57 AF012872.1 NT 16920 28826 2.07 7.0E-57 AF012872.1 NT 16980 1 7.0E-57 AF020503.1 NT 24861 3.74 5.0E-57 AJ271735.1 NT 13384 25824 0.87 3.0E-57 AJ271735.1 NT 13897 18.2 3.0E-57 AAZ30279.1 EST_HUMAN 15145 27857 10.45 3.0E-57 BE676822.1 EST_HUMAN 16234 0.97 3.0E-57 BE676822.1 EST_HUMAN 16807 27857 10.45 3.0E-57 BE676822.1 EST_HUMAN 16807 28996 0.97 3.0E-57 BE676822.1 EST_HUMAN 16807 28996 0.97 3.0E-57 BE676822.1 EST_HUMAN 16808 3.0E-57 BE676822.1 EST_HUMAN 16809 3.0E-57 BE676837.1 EST_HUMAN 18891 3.1723 3.5E-57 BE776837.1 EST_HUMAN 27168 3.1723 3.5F-57 BE776837.1 EST_HUMAN 27168 3.6F-57 BE	3233				7.0E-57	6002979	ᅻ	Homo saplens Kruppel-like factor 8 (KLF8), mRNA
16920 28826 2.07 7.0E-57 AF012872.1 NT 16980 1 7.0E-57 AF020503.1 NT 24861 3.74 5.0E-57 ALZ71735.1 NT 13384 25624 0.87 3.0E-57 AB026898.1 NT 13897 182 3.0E-57 AA230279.1 EST HUMAN 15145 27656 10.45 3.0E-57 BE676822.1 EST HUMAN 16234 27657 10.45 3.0E-57 BE676822.1 EST HUMAN 16807 27857 10.45 3.0E-57 BE676822.1 EST HUMAN 16807 27857 40.88 3.0E-57 BE676822.1 EST HUMAN 16807 3.0E-57 BE676822.1 EST HUMAN 16807 3.0E-57 BE676822.1 EST HUMAN 16807 3.0E-57 BE766837.1 EST HUMAN 18891 3.1723 3.5E-57 BE766837.1 EST HUMAN 27168 3.0E-57 BE766837.1 EST HUMAN 27168 3.6E-57 BE766837.1 EST HUMAN 27168 3.6F-57 W28130.1 EST HUMAN	3885	١.			7.0E-57	AF012872.1	ZT.	Homo sapiens phosphatidylinositol 4-khase 230 (pl4K230) mRNA, complete cds
16980 1 7.0E-57 AF020503.1 NT 24861 3.74 5.0E-57 ALZ71735.1 NT 16294 28696 1.9 4.0E-57 AB026898.1 NT 13897 3.0E-57 AAZ30Z79.1 EST_HUMAN 15145 27656 10.45 3.0E-57 BE676822.1 EST_HUMAN 16234 0.97 3.0E-57 BE676822.1 EST_HUMAN 16807 27657 10.45 3.0E-57 BE676822.1 EST_HUMAN 16807 28696 0.97 3.0E-57 BE676822.1 EST_HUMAN 16807 28696 0.97 3.0E-57 BE676822.1 EST_HUMAN 16807 28696 0.97 3.0E-57 AW853964.1 EST_HUMAN 16807 3.0E-57 AW853964.1 EST_HUMAN 16808 3.1623 3.0E-57 BE796837.1 EST_HUMAN 27168 3.4073 3.91 3.0E-57 BE796837.1 EST_HUMAN	3885	Ш			7.0E-57	AF012872.1	LZ	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
24861 3.74 5.0E-57 AJZ71735.1 NT 13384 25824 0.87 3.0E-57 AJZ71735.1 NT 13897 18.2 3.0E-57 AJZ71735.1 NT 15145 27656 10.45 3.0E-67 BE676622.1 EST_HUMAN 16174 27657 10.45 3.0E-67 BE676622.1 EST_HUMAN 16234 40.88 3.0E-67 BE676622.1 EST_HUMAN 16807 28996 0.97 3.0E-67 AW833964.1 EST_HUMAN 18891 31623 1.33 3.0E-67 PO8547 SWISSPROT 18892 31723 3.51 3.0E-67 BE786608 NT 27168 3.073 3.91 3.0E-67 W28130.1 EST_HUMAN	4460			-	7.0E-57			Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5
13384 26824 0.87 3.0E-57 AB026898.1 NT 13897 18.2 3.0E-57 4507798 NT 15145 27656 10.45 3.0E-67 BE676622.1 EST_HUMAN 16145 27657 10.45 3.0E-67 BE676622.1 EST_HUMAN 16234 40.88 3.0E-67 BE676622.1 EST_HUMAN 16807 28996 0.97 3.0E-67 AW853964.1 EST_HUMAN 18891 31623 1.33 3.0E-67 PO8547 SWISSPROT 18892 31723 3.51 3.0E-67 BE7766687.1 EST_HUMAN 27168 34073 3.91 3.0E-67 W28130.1 EST_HUMAN	12682			3.74			누	Homo sapiens Xq pseudoautosomal region; segment 1/2
13384 26824 0.87 3.0E-57 4507798 NT 13897 18.2 3.0E-57 4507798 NT 15145 27656 10.45 3.0E-57 BE676622.1 EST_HUMAN 16234 27857 10.45 3.0E-57 BE676622.1 EST_HUMAN 16807 28996 0.97 3.0E-57 AW883964.1 EST_HUMAN 18891 3.6257 P08547 SWISSPROT 18992 3.1723 3.56-57 BE766637.1 EST_HUMAN 21168 34073 3.91 3.0E-57 W28130.1 EST_HUMAN	3755	<u> </u>					 	Homo septiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
13897 18.2 3.0E-57 4507788 NT 15145 27656 10.45 3.0E-57 BE676822.1 EST_HUMAN 16146 27857 10.45 3.0E-57 BE676822.1 EST_HUMAN 16234 40.88 3.0E-57 AW833964.1 EST_HUMAN 16807 28996 0.97 3.0E-57 AW833964.1 EST_HUMAN 18891 31623 1.33 3.0E-57 AW833964.1 EST_HUMAN 18992 31723 3.51 3.0E-57 BE796837.1 EST_HUMAN 21168 34073 3.91 3.0E-57 W28130.1 EST_HUMAN								Homo sapiens ubiquitin protein ligase E3A (human papilioma virus E6-associated protein, Angelman
15145 27656 10.45 3.0E-67 BE676622.1 EST_HUMAN 16146 27657 10.45 3.0E-67 BE676622.1 EST_HUMAN 16234 40.88 3.0E-67 AW853964.1 EST_HUMAN 16807 22895 0.97 3.0E-67 PO8547 SWISSPROT 18992 31723 3.51 3.0E-67 W28130.1 EST_HUMAN 27168 34073 3.91 3.0E-67 W28130.1 EST_HUMAN 18992 31723 3.51 3.0E-67 W28130.1 EST_HUMAN 18992 31723 3.51 3.0E-67 W28130.1 EST_HUMAN 1725608	827		Ì			4507798	Į.	syndrome) (UBE3A) mkNA
15145 27666 10.45 3.0E-57 BE676622.1 EST_HUMAN 1634 27657 10.45 3.0E-57 BE676622.1 EST_HUMAN 16234 40.88 3.0E-57 AW883964.1 EST_HUMAN 16807 28986 0.97 3.0E-57 P08547 SWISSPROT 18891 31623 1.33 3.0E-57 T1225608 NT 18992 31723 3.51 3.0E-57 BE786837.1 EST_HUMAN 21168 34073 3.91 3.0E-57 WZ8130.1 EST_HUMAN	1363			18.2			EST_HUMAN	nc13f07.s1 NCI_CGAP_Pr1 Homo saplens cDNA clone IMAGE:1008037 similar to SW:KS10_HUMAN P46783 40S RIBOSOMAL PROTEIN S10.;
16145 27666 10.45 3.0E-57 BE676622.1 EST_HUMAN 16146 27657 10.45 3.0E-57 BE676622.1 EST_HUMAN 16234 40.88 3.0E-57 AW863964.1 EST_HUMAN 16807 25896 0.97 3.0E-57 AW863964.1 EST_HUMAN 18891 31623 1.33 3.0E-57 PO8547 SWISSPROT 18992 31723 3.51 3.0E-57 BE796637.1 EST_HUMAN 21168 34073 3.91 3.0E-57 WZ8130.1 EST_HUMAN		l						7/33b10.x1 NCI_CGAP_CLL1 Homo sepiens cDNA done IMAGE:3236443 3' similar to WP:Y47H9C.2
16146 27657 10.45 3.0E-57 BE676622.1 EST_HUMAN 16234 40.88 3.0E-57 AW883964.1 EST_HUMAN 16807 28996 0.97 3.0E-57 P08547 SWISSPROT 18891 31623 1.33 3.0E-57 T1225608 NT 18992 31723 3.51 3.0E-57 BE796837.1 EST_HUMAN 21168 34073 3.91 3.0E-57 W28130.1 EST_HUMAN	2652						EST_HUMAN	CE20283;
16146 27657 10.45 3.0E-57 BE676622.1 EST_HUMAN 16234 40.88 3.0E-57 AW863964.1 EST_HUMAN 16807 25996 0.97 3.0E-57 P08547 SWISSPROT 18891 31623 1.33 3.0E-57 P08547 SWISSPROT 18992 31723 3.51 3.0E-57 P08537.1 EST_HUMAN 21168 34073 3.91 3.0E-57 W28130.1 EST_HUMAN								7733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA done IMAGE:3236443 3' similar to WP:Y47H9C.2
16234 40.88 3.0E-57 AW853964.1 EST_HUMAN 16807 28996 0.97 3.0E-57 P08547 SWISSPROT 18891 31623 1.33 3.0E-57 11225608 NT 18992 31723 3.51 3.0E-57 BE796637.1 EST_HUMAN 21168 34073 3.91 3.0E-57 W28130.1 EST_HUMAN	2652					BE676622.1	EST_HUMAN	CE20283;
16807 28996 0.97 3.0E-57 P08547 SWISSPROT 18891 31623 1.33 3.0E-57 11225608 NT 18992 31723 3.51 3.0E-57 BE766537.1 EST HUMAN 21168 34073 3.91 3.0E-57 W28130.1 EST HUMAN	3694			40.88		AW853964.1	EST_HUMAN	RC3-CT0254-110300-027-d10 CT0254 Homo saplens cDNA
18891 31623 1.33 3.0E-57 11225608 INT 18992 31723 3.51 3.0E-57 BE796537.1 EST_HUMAN 21168 34073 3.91 3.0E-57 W28130.1 EST_HUMAN	4076						SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
18992 31723 3.51 3.0E-57 BE786537.1 EST HUMAN 2.0168 34073 3.91 3.0E-57 W28130.1 EST HUMAN	6333					25608	. FN	Homo sepiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
21188 34073 3.91 3.0E-57 W28130.1 EST_HUMAN	9438					BE786537.1	EST_HUMAN	601589896F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 67
	8734					W28130.1	EST HUMAN	4216 Human retina cDNA randomly primed sublibrary Homo saplens cDNA

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similer (Top) Hit BLAST E Veiue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8754	21188	34089	1.98	3.0E-57	11545798 NT	NT	Homo saplens hypothetical protein FLJ11656 (FLJ11656), mRNA
8754		34090	1.98	3.0E-57	11545798 NT	NT	Homo saplens hypothetical protein FLJ11656 (FLJ11656), mRNA
8260		34603	5.43	3.0E-57	AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo saptens cDNA clone HEMBA1001910 5'
9513		34901	0.85		11545798	FN.	Homo sapiens hypothetical protein FLJ11658 (FLJ11656), mRNA
9513			0.85		11545798 NT		Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
10889			5.38	3.0E-57	AW248374.1	EST_HUMAN	2820473.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820473 5'
11811	24938	30464	7.12	3.0E-57	W23871.1	EST_HUMAN	zb45d11.r1 Soares_fetal_lung_NbHL19W Homo sepiens cDNA clone IMAGE:306549 5'
12201	24828		2.03		AW178575.1	EST_HUMAN	RC0-HT0112-080999-001-C08 HT0112 Homo saplens cDNA
2289	14806	27324	1.75		BE172526.1	EST_HUMAN	MR0-HT0559-010400-009-h10 HT0559 Home saplens cDNA
2684	15176	27687	6.72	2.0E-57	AA845419.1	EST HUMAN	eko2bo2.s1 Soeres_perethyrold_tumor_NbHPA Homo septens oDNA clone IMAGE:1404747.3' similar to contains Alu repetitive element contains element.
3416	L		3.94		AL163204.2	Т	Homo saplens chromosome 21 segment HS21C004
3536	16079	28496	0.61	2.0E-57	R07702.1	EST HUMAN	ye98h01.r1 Soares fetal liver spleen 1NFLS Homo septens cDNA clone IMAGE:125809 5
3536	16079	28497	0.61	2.0E-57	R07702.1	EST HUMAN	ye98h01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:125809 67
3943	16478	· 28888	1.07	2.0E-57	BE073264.1	EST_HUMAN	MR0-BT0551-060300-103-b03 BT0551 Homo saplens cDNA
4204	16729		0.61	2.0E-57	AA018299.1	EST_HUMAN	z940c08.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:381450 5'
4204	16729	29118	0.61	2.0E-57	AA018299.1	EST_HUMAN	z940c06.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:361450 5'
4547	17064		6.88	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
					_		ze31c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380584 5' similar to contains L1.t3 L1
583/	18515		1.58	2.0E-57	AA016131.1	EST HUMAN	rapetitive element;
6338	18898		36.64	2.0E-57	BF115266.1	EST HUMAN	7n80f04.xt NCI_CGAP_Ov18 Homo sepiens cDNA clone IMAGE:3570986 3' similar to contains TAR1.tt MER22 repetitive element:
6473	19028	31765	0.79		1	LN	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
9091			1.03		AF045452.1	TN	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
9928		35278	2.28		AF057722.1	TN	Hamo saplens 17-beta-hydraxysteraid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
11040	23467	36489	2.45	2.0E-57	11424084 NT	IN	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11040		36490	2.45		11424084 NT	TN	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
2138			1.13		AW 503208.1	EST_HUMAN	UI-HF-BNO-akt-g-07-0-UI.11 NIH_MGC_50 Homo saplens cDNA done IMAGE:3078348,57
8516	20928	33824	0.52	1.0E-67	H55076.1	EST_HUMAN	CHR220015 Chromosome 22 exon Homo sapiens cDNA clone C22_25 5'
9130	21562		2.12	1.0E-57	BE043031.1	EST_HUMAN	ho32a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3039082 3' sImilar to TR:O00246 O00246 HYPOTHETICAL 9.3 KD PROTEIN ;
11971	24166		2.5	1.0E-57	AW470791.1	EST HUMAN	ha33d08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element :
5946		31206			_	П	EST11348 Uterus Homo septens cDNA 5' end
						1	

Table 4
Single Exon Probes Expressed in Lung

	Top Hit Descriptor	AN 601309465F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE:3631000 51	Г			丁	nomo sapiens pusative protein O-marmos/mansterase (FOM IZ), mKNA	Homo sapiens putative protein O-mannosytransterase (POM I 2), mRNA		AN 601346704F1 NIH_MGC_8 Homo saplens cDNA clone IMAGE:3687577 5	Home saplens MADS box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B)	Т	T			Г				Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete ods	Homo saplens protein tyrosine phosphatase, non-receptor type 21 (PTPN21). mRNA	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA	Homo sapiens synaptojanin 1 (SYNJ1), mRNA	AN RC4-NT0057-150600-018-b05 NT0057 Home saplens cDNA	AN CM3-UM0043-240300-127-e07 UM0043 Homo sepiens cDNA	T	Г				Т	П
野田		EST HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	ž!	z!	NT	EST_HUMAN	Ŀ	101	ESI HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN		EST_HUMAN	TN	INT	N.	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMA	EST_HUMAN	EST_HUMAN	EST HUMAN	Ι	EST_HUMAN
	lop Hit Acession No.	BE395061.1	BE868715.1	8.0E-58 AI798376.1		8.0E-68 AI798376.1 ES			- 1	BE561971.1	TINCLARTER	A VALED 44/	7.0E-35 AW 304109.1	7.0E-68 AW 504109.1	BE395061.1	6.0E-58 AU130689.1	BE242150.1		6.0E-58 BE242150.1	6.0E-58 AF106911.1	11434746 NT	11526291 NT	4507334 NT	BE763984.1	5.0E-58 AW797948.1				6.0E-58 AA988183.1	AI636745.1	1	H23072
Most Similar	(10p) Hit BLAST E Value	9.0E-58	8.0E-58 BE	8.0E-58	100	8.0E-58	9.05-30	8.0E-58	8.0E-58	7.0E-58 B	7 OF 48	7 05 50	7.05-50	7.0E-68	6.0E-58	6.0E-58	6.0E-58 B		6.0E-58	6.0E-58	6.0E-58	6.0E-58	5.0E-58	5.0E-58	5.0E-58	5.0E-58	5.0E-58	5.0E-58	6.0E-58	5.0E-58 A	5.0E-58	5.0E-58
	Signal	2.64	2.07	4.32	,	4.32		4.10	2.05	0.72	A A 7	100	0.7.0	3.70	6.59	4.48	1.29		1.29	0.95	1.4	1.52	4.78	6.46	3.37	3.37	2.34	2.34	5.31	76.0	2.29	69.69
70	ON OO	30904		25851	02020	70007	2007	20049		32987		28470	20100	SOLOS	27195	27301	27829		27830	31779	35613		25328	25715	26210	26211	26210	26211	28258	29182		31786
Exan	SEQ ID NO:	24362	13174	13238	-	13238	7,050	7072	1040	20132	23078	1	ı	1		14778	15409	9,1	15409	19039	22647	24229	12909	13291	13765	13765	13765	13765	15840	16799	18474	19046
Probe	SEQ ID NO:	12267	909	673	67.0	1878	10.00	300	6787	7687	10835	10708	20704	90/2	2169	2270	2854	, 200	800	888	10246	12075	314	2 <u>8</u>	1225	1225	1226	1228	3291	4274	9839	6492

Top Hit Descriptor	Homo sapiens chromosome 21 segment HS21C085	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA	Homo sapiens nibrin (NBS) mRNA, complete cds	Homo sapiens nibrin (NBS) mRNA, complete cds	Homo saplens holocytochrome c synthase (cytochrome c heme-lyase) (HCCS) mRNA	Homo saplens hypothetical protein FLJ10828 (FLJ10826), mRNA	Homo sapiens chromosome 21 segment HS21C018	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA	Homo saplens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (digomycin sensitivity conferring protein) (ATP50) mRNA	Homo sapiens interfeukin 10 receptor, beta (IL10RB), mRNA	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA	Homo sapiens ubiquitin-conjugating BIR-domain enzyme APOLLON mRNA, complete cds	Human beta-prime-adaptin (BAM22) gene, exon 3	Human mRNA, Xq terminal portion	Homo sapiens EGF-like repeats and discoldin I-like domains 3 (EDIL3), mRNA	hy18a02.x1 NCI_CGAP_GC6 Hamo sapiens cDNA clone IMAGE:3197642 3'	Homo sapiens E18-55kDa-associated protein 5 (E1B-AP5), mRNA	yg10e02.r1 Soares infant brain 1NIB Homo sapiens cDNA done IMAGE:31693 5'	Homo sapiens peptide YY (PYY) mRNA	yg10e02.r1 Soares infant brain 1NIB Homo sepiens cDNA done IMAGE:31693 5	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'	602185789F1 NIH_MGC_45 Homo caplens cDNA clone IMAGE:4308943 51	QV0-BT0702-170400-194-f09 BT0702 Homo saplens cDNA	HSC1TG081 normalized Infant brain cDNA Homo sapiens cDNA clone c-1tg08	AV712977 DCA Homo sapiens cDNA clone DCAAZG04 5	Homo sapiens 5-eminolevulinate synthase 2 (ALAS2) gene, complete cds	ba08b07.y/ NIIH_MGC_7 Homo saplens cDNA clone IMAGE:2823733 5' stmilar to gb:X69391 60S RIBOSOMAL PROTEIN L6 (HUMAN); gb:X81887 M.musculus mRNA for TAX responsive element binding	protein (MOUSE);	AU 129905 N I 2KPZ Homo sapiens cDNA clone N I ZKP2006479 5
Top Hit Database Source	NT Ho		NT Ho				NT Ho							IN IN			T HUMAN		T_HUMAN	Г	EST_HUMAN 199	EST_HUMAN 60	EST_HUMAN 60	EST_HUMAN Q	EST_HUMAN HS	EST_HUMAN AV	Ī		Т	EST HUMAN AL
Top Hit Acession No.	5.0E-58 AL163285.2 N	11421330 NT	Г	5.0E-58 AF051334.1	4885400 NT	8922693 NT	5.0E-58 AL163218.2	11526293 NT	11418177 NT	450Z302 NT	4504634 NT	4503648 NT	4.0E-68 AF265655.1			5031660 NT	E463857.1	24059	217879.1	4758981 N		Г		9.1			2.0E-58 AF068624.1		2.0E-58 BE208532.1	Ţ
Most Similar (Top) Hit BLAST E Value	5.0E-58	5.0E-58	5.0E-58	5.0E-58	6.0E-58	5.0E-58	5.0E-58	5.0E-58	5.0E-58	4.0E-58	4.0E-58	4.0E-58	4.0E-58	4.0E-58	4.0E-58 D16470.1	4.0E-58	4.0E-58 B	4.0E-58	3.0E-58 R17879.1	3.0E-58	3.0E-58 R17879.1	3.0E-58	3.0E-58	3.0E-58	3.0E-58 F07056.1	3.0E-58	2.0E-58	•	2.0E-58 I	2.0E-58/
Expression Signal	0.94	0.91	0.67	0.67	0.72	7.46	1.59	3.92	1.88	2.24	1.8	1.29	17.13	1.19	1.65	1.22	0.65	16.91	1.68	2.89	0.75	3	3	0.59	0.92	1.46	13.48		12.89	2.1
ORF SEQ ID NO:	32039	32134	32698	32699	32835	33949	35502				25814	26482	27609	27578	28260	28682	33737	36565		26410			28105	31880	32087	32324	25961			2/496
Exan SEQ ID NO:	19277	19357	19875	19875	19995	21044	22533	24855	24514	12975	13377	14029	14995	15083	15842	16279	20839			13954						19540	13517			14983
Probe SEQ ID NO:	6731	6816	7162	7162	7645	8609	10132	11777	12513	388	818	1497	2494	2584	3283	3739	8425	11102	349	1421	2984	3135	3135	6583	6786	7004	984		1322	7487

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5613	24589	30566	2.91	2.0E-58 BE	:907186.1	EST_HUMAN	601499961F1 NIH_MGC_70 Homo saplens cDNA clone IMAGE:3901911 6'
5613		30597	2.91	2.0E-58		EST_HUMAN	601499961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
6363	18921	31656	1.35	2.0E-58	2.0E-58 BF513488.1	EST_HUMAN	UI-H-BW1-ams-g-11-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071060 3'
							em57e02.xt Johnston frontal cortex Horno sapiens oDNA clone IMAGE:1539674 3' similar to WP:ZK329.1 CE05065 UBIQUITIN CONJUGATING ENZYMEY, RECOVERIN SUBFAMILY OF EF-HAND CALCIUM
6434	18990	31721	1.61	2.0E-58 AI	Al124874.1	EST HUMAN	BINDING PROTEIN;
6468	19023	31758		2.0E-58	2.0E-58 R92567.1	EST_HUMAN	yq08h06.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA done IMAGE:186379 6
7336	19748	32551	0.82	2.0E-58	2.0E-58 AI291407.1	EST_HUMAN	qm84c01.x1 NCI_CGAP_Lu5 Hamo saplens cDNA clone IMAGE:1895424 3'
7598	20047	32898	2.76	2.0E-68	2.0E-58 AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7598			2.76	2.0E-58		IN	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
10524			29.2	2.0E-58	1	EST_HUMAN	601890812F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:4131891 5'
742	13303	25727	÷0.94	1.0E-58	1.0E-58 M65134.1	TN	Human complement component C5 mRNA, 3'end
1094	13639	26078	18.1	1.0E-58	6274549 NT	TN	Homo sapiens NADH dehydrogenase (ubiquinone) 1 bata subcomplex, 9 (22kD, B22) (NDUFB9), mRNA
1359	13894	28349	1.4	1.0E-58	1.0E-58 AW957182.1	EST_HUMAN	EST369252 MAGE resequences, MAGD Homo saplens cDNA
1359	13894	26350	1.4	1.0E-58	1.0E-58 AW957182.1	EST_HUMAN	EST369252 MAGE resequences, MAGD Home sapiens cDNA
1428	13961	28417	1.1	1.0E-58		IN	Homo saplens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
2590			1.94	1.0E-58	1.0E-58 AF217514.1	NT	Homo sapiens uncharacterized bone marrow protein BM038 mRNA, complete cds
2760		27765	1.53	1.0E-58	4759169 NT	NT	Homo sapiens sterol regulatory element binding transcription factor 2 (SREBF2) mRNA
3520					4758081 NT	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3620			0.68		4758081 NT	NT	Homo sapiens chondroitin suifate proteoglycan 2 (versican) (CSPG2) mRNA
3718)		4507628 NT	NT	Homo sapiens transition protein 1 (during histone to protemine replacement) (TNP1) mRNA
4784		29682	7.9		1.0E-58 M95963.1	IN	Human prohormone converting enzyme (NEC2) gene, exon 4
5066			5.64		1.0E-58 AI141063.1	EST_HUMAN	oz43h01.x1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:1678129.3'
6128			1.38		1.0E-59 BE061860.1	EST_HUMAN	RC1-BT0254-290100-015-e01 BT0254 Homo saplens cDNA
7265					11422031 NT	IN	Homo sapiens hypothetical protein (LOC51260), mRNA
9328		34669	0.88		1.0E-58 AV751001.1	EST_HUMAN	AV751001 NPC Homo saplens cDNA clone NPCACH09 6'
11020		36466	3.36		11431260 NT	NT	Homo saplens Res suppressor protein 1 (RSU1), mRNA
11482					1.0E-58 X63392.1	NT	H.sapiens immunoglobulin kappa light chain variable region L14
11503	_				D61405.1	TN	Human MSH3 gene, excn10
2136			32.82		4507378 NT	NT	Homo saplens TATA box binding protein (TBP) mRNA
7233	j		•			EST_HUMAN	EST95683 Testis I Homo saplans cDNA 5' end.
7233		32664			8.0E-59 AA382291.1	EST_HUMAN	EST95683 Testis I Homo sapiens cDNA 5' end
8763	21197		2.39			EST_HUMAN	wh50d08.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone iMAGE:23841713'

Table 4
Single Exon Probes Expressed in Lung

	İ						
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8423	20837	33733	0.52	7.0E-59	BE149117.1	EST_HUMAN	RC4-HT0251-140100-013-h01 HT0251 Homo seplens cDNA
8423	20837	33734	0.52	7.0E-69		EST_HUMAN	RC4-HT0251-140100-013-h01 HT0251 Homo saplens cDNA
182	15277		2.65	6.0E-59	BF035327.1	EST HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
8476	20889	33787	9.0	6.05-59	AA962431.1	EST HUMAN	om81804.sri.NCI_CGAP_Kid3 Homo sapiens dDNA clone IMAGE:1553550 3' similar to TR:Q13732 Q13732 SA GENE PRODUCT PRECURSOR:
3088	15842	28050	8.88		AI807484.1	П	Wf48c11.x1 Soares NFL T GBC S1 Homo sapiens cDNA clone IMAGE:2358836 3'
4702	17218	29600	6.62	6.0E-59	(83497.1	Π	H.sapiens DNA for ZNF80-linked ERV9 long terminal repeat
5982	18558	31243	0.48	5.0E-59		NT	Homo sapiens ataxin 2 related protein (A2LP), mRNA
7407	18078	30370	9.71	5.0E-59	AW162304.1	EST HUMAN	au68c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAR1 repetitive element:
9838	22241		123	5.0E-59	AV762869.1	EST HUMAN	AV762869 MDS Hamo saplens cDNA clone MDSEIC12 5
10687	23127	36107	3.57	5.0E-59	11434908	LN L	Homo sapiens hypothetical protein (LOC57143), mRNA
816	13374	25812	3.2	4.0E-59	D80006.1	N.	Human mRNA for KIAA0184 gene, partial cds
							Homo saplens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein)
5789	18380	31039	0.94	4.0E-59	11034810 NT	본	(CTNND2), mRNA
11924	24782		3.69	4.0E-59	AF057720.1	IN	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
6	12629		6.12		AW9655	EST_HUMAN	EST377582 MAGE resequences, MAGI Homo saplens cDNA
235	12836	25247	4.15		7662247 NT	TN	Homo saplens KIAA0680 gene product (KIAA0680), mRNA
1708	14236	26720	62.6	3.0E-59	4505860 NT	TN	Homo saplens plasminogen activator, tissue (PLATa) mRNA
1708	14236	26721	9.79	3.0E-59	4505860 NT	L	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
2048	14564	27077	5.63		AB029035.1	.IN	Homo sapiens mRNA for KIAA1112 protein, partial cds
2048	14564	27078	5.63	3.0E-59	AB029035.1	IN	Homo saplens mRNA for KIAA1112 protein, partial cds
2898	15553	9962	0.64	3.0E-59	T18865.1	EST_HUMAN	h02017t Testis 1 Homo seplens cDNA clone h02017 5' end
2998	15553	27966	0.64	3.0E-59	T18865.1	EST_HUMAN	h02017t Testis 1 Homo saplens cDNA clone h02017 5' end
3080	15644	28054	3.85		4502014 NT	١	Homo saplans A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3090	15644	28065	3.95		4502014 NT	Ŋ	Homo saplens A khase (PRKA) anchor protein 1 (AKAP1), mRNA
3835	16372	28772	1.07	3.0E-59	4508044 NT	Ę	Homo saplens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA
4071	16602	78882	1.46		AW451832.1	EST_HUMAN	UFH-Bi3-alk-f-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:27372723'
4734	17249	29631	1.59	3.05-59	AL163284.2	NT	Homo sapians chromosome 21 segment HS210084
4899	17410	29783	1.79			NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
6538	19090	31831	2.31	3.0E-59	8924074 NT	NT	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA
7832	20272		2.2		5454137 NT	NT	Homo saplens nuclear receptor co-repressor 1 (NCOR1), mRNA
8585	21020	33920	1.26	3.0E-59	X12556.1	NT	Human mRNA for dbl proto-oncogene

Top Hit Descriptor	Human mRNA for dbi proto-oncogene	H. saplens CKII-dpha gene	H. sapiens CKII-alpha gene	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA	UI-H-BI4-eoy-b-02-0-UI.s1 NCI_CGAP_Sub8 Homo septens cDNA clone IMAGE:3086522.3	UI-H-BI4-soy-b-02-0-UI.s1 NCI_CGAP_Sub8 Hamo septens cDNA clone IMAGE:3086522 3'	zt98d05.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:730377 3'	Homo sapiens interferon-induced protein p78 (MX1) gene, complete cds	MR0-FT0144-250700-002-a10 FT0144 Homo saplens cDNA	EST180633 Jurkat T-cells V Homo saplens cDNA 5' end	RC0-NT0036-100700-032-a07 NT0036 Homo saplens cDNA	fh07h04.x1 NIH MGC 17 Homo septems cDNA clone IMAGE 2061654 F	fh07h04.x1 NIH MGC 17 Homo saplens cDNA clone IMAGE:2861654 5	we36c12.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2300182 3' similar to TR:Q86542	GOOD42 KIVE-1 PROTEIN, CONBINS LIK/DIPERING GEMENT;	Anno septement many, capitae cas	601176767F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3631927 6	decision of Source promount intense NAMDI Home contens about decision into Co. 1410204.3	cabbit 1.s1 NCI_CGAP_GCB1 Home sapiens cDNA clone IMAGE:1309029 3' similar to TR:Q13537	Q13637 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. :	Homo saplens hypothetical protein FL/10697 (FL/10697), mRNA	Homo sapiens hypothetical protein FLJ10897 (FLJ10697), mRNA	Homo sapiens mRNA for transcription factor	601111951F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3352692 5'	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352682 5'	Homo saplens zinc finger protein 275 (ZNF275), mRNA	Homo saplens mRNA for transcription factor	EST389849 MAGE resequences, MAGO Homo saplens cDNA	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA	Homo saplens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA	Homo sapiens mRNA for KIAA1081 protein, partial cds
Top Hit Database Source	TN	IN IN	FZ.		EST_HUMAN	Г	Г		EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	Т	П	TO LICUMAN		EST HUMAN	Т	Т	EST_HUMAN (±N	EST_HUMAN	EST_HUMAN 6		± N	EST_HUMAN				± L
Top Hit Acession No.				11417866 NT	2.0E-59 BF509383.1	Ī			Γ	1309774.1		Ī	2.0E-59 AW410898.1		1845 4	Ī		1.0E-59 A1139341 1		1.0E-59 AA748468.1	8922593 NT	8922693 NT				8830	130894.1	8.0E-60 AW977845.1	4759159 NT	5174656 NT	5174656 NT	8.0E-60 AB029004.1
Most Similar (Top) Hit BLAST E Value	3.0E-59 X	3.0E-59	3.0E-59 X70251.1	3.0E-59	2.0E-59	2.0E-69	2.0E-69	2.0E-59	2.0E-59 BF	2.0E-59 /	2.0E-59 BF	2.0E-59 /	2.0E-59 /	- C	2.0E-59 A	20 10 1	1.0E-39	1.0E-59		1.0E-59 /	1.0E-59	1.0E-59	1.0E-59 AJ	1.0E-59	1.0E-59	1.0E-59	1.0E-59 AJ	8.0E-60	8.0E-60	8.0E-60	8.0E-60	8.0E-60
Expression Signal	1.28	0.87	0.87	5.81	0.58	0.58	29.0	0.72	0.45	5.5	1.8	3.55	3.55	1	4 00	000	11 68	11.68		1.91	96.0	0.96	121	1.1	1.1	1.01	8.52	66.0	2.12	2.93	2.93	1.14
ORF SEQ ID NO:	33921	35428	35429		31442	31443		32505				36040	36041	340.27	30580		27396	27397					33385	33573	33574	35018	33385	25778	26495	27112	27113	31564
Exan SEQ ID NO:	11			24221				19706		22191	22791	23054	23064	PHUPC							_[20680		22088	1					18845
Probe SEQ ID NO:	8585	10071	10071	12055	6173	6173	7197	7502	8369	9788	10391	10611	10611	11800	12372	197	2372	2372	!!	2547	5378	6378	8078	8263	8263	8096	10833	785	1500	2078	2079	6283

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6854	19394	32170	1.01		\$83182.1	ħ	hyaluronan-binding protein—hepatocyte growth factor activator homolog [human, plasma, mRNA, 2408 nt]
8236		33546	96.0	8.0E-60	11420841 NT	LN LN	Homo saplens phosphate cytidylytransferase 1, choline, beta isoform (PCYT1B), mRNA
8605	21040	33945	2.68	8.0E-60	X17033.1	K	Human mRNA for Integrin alpha-2 subunit
9301	21733		2.79	8.0E-60	11428949 NT	NT	Homo sapiens S-antigen, retina and pineal gland (arrestin) (SAG), mRNA
9671	22018		1.55	8.0E-60	11417118 NT	N	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9871	22018	34949	1.55	8.0E-60	11417118 NT	M	Homo saplens KIAA0433 protein (KIAA0433), mRNA
10813	23056		7.45	8.0E-60	AL163204.2	LN L	Homo sapiens chromosome 21 segment HS21C004
10613	23056	36044	7.45	8.0E-60	AL163204.2	k	Homo sapiens chromosome 21 segment HS21C004
775		25769	40.85	7.0E-80	AF055066.1	MT	Homo sapiens MHC dass 1 regian
776	13335		197.18	7.0E-60	AF055066.1	N	Homo sapiens MHC class 1 region
838			1.4	7.0E-60	4504634	LN.	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
2047	14563	27078	1.24	7.0E-60	AF077188.1	N.	Hamo sapiens cuilin 4A (CUL4A) mRNA, complete cds
2743	15233	27748	1.69	7.0E-60	AB011153.1	Z	Homo sapiens mRNA for KIAA0581 protein, partial cds
4198	16721	29109	2.5	7.0E-60	4505488 NT	NT	Homo saplens ornithine decarboxylase 1 (ODC1) mRNA
				_			yr12f04.r1 Soares fetal liver spleen 1NFLS Homo sapiens oDNA clone IMAGE:205087 5' similar to contains
9824	22039	34973	4.83	7.0E-60	H58041.1	EST_HUMAN	LTR5 repetitive element;
							y12f04.r1 Soares fetal liver spieen 1NFLS Homo saplens cDNA clone IMAGE:205087 5' similar to contains
11122	23574	36616	3.87	7.0E-80	H68041.1	EST_HUMAN	LTR5 rapetitive element;
-500			1	!			yq78h09.r1 Soares fetal liver spleen 1NFLS Homo septens cDNA clane IMAGE:201953 5' strillar to contains
/988	_1			6.0E-60	H52456.1	EST_HUMAN	OFR repetitive element;
\$. 1	1		5.0E-60	AI807917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2359212.33
88		25117	1.43		AI807917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2369212.37
2926	15481		1.48	4.0E-80	AA299037.1	EST_HUMAN	EST11498 Uterus Homo sapiens cDNA 5 end similar to similar to retrovirus-related pol
7000	20000	70700	,				hre1105x1 NCI_CGAP_KId11 Homo saplens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
11000	1	1	8/0		91-1960	EST HUMAN	GETURE GIFTHO BINDING PROTEIN 1;
300	J.	11000				Z	Homo sapiens v-rat-1 murine leukemia viral oncogene homotog 1 (RAF1), mRNA
200	_1			4.0E-60		LN	Homo saplens v-raf-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
題			3.13	3.0E-60		EST_HUMAN	601336446F1 NIH_MGC_44 Hamo saplens cDNA clans IMAGE:3690395 5'
1831		26853	3.13		BE582611.1	EST_HUMAN	801336446F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3690396 6/
1839			1.89	3.0E-60	IN 0611509	NT	Homo sapiens prohibitin (PHB) mRNA
4487			2.36	3.0E-60	AJ271736.1	NT	Homo saplens Xq pseudoautosomal region; segment 1/2
5634			9.54	3.0E-60	BF365143.1	EST HUMAN	QV4-NN1149-250900-423-f01 NN1149 Hamo saplens cDNA
6069	18487	31169	2.3	3.0E-60	AW836198.1	EST HUMAN	RC3-LT0023-200100-012-601 LT0023 Homo septens cDNA

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7368	18038	30420	1.11	3.0E-80	AI792814.1	EST_HUMAN	ol60h11.y5 NCI_CGAP_Kld3 Homo sapiens cDNA clone IMAGE:1634063 6' similar to SW:UDP_MOUSE P52824 URIDINE PHOSPHORYLASE ;
8934	21368	34280	4.51	3.0E-60	5174644	K	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8934			4.51	3.0E-80	5174644 NT	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9169	21601	34511	78.2	3.0E-60	5174644 NT	NT.	Hano sapiens proline dehydrogenasse (proline oxidase) (PRODH) mRNA
10978	23407	36416	2.24	30.E	11427120 NT	N.	Homo sapiens CGI-152 protein (LOC57130), mRNA
10978	23407			3.0E-60	11427120 NT	Z	Homo sapiens CGI-162 protein (LOC57130), mRNA
777			ļ				eb07h04.r1 Stratagene tung (#937210) Hαπο saplens cDNA clαne IMAGE:840151 6' similar to contains
12409	24048		1./4	3.05-60	AA485286.1	ESI_HUMAN	LIRIO (1 LIRIO repeatore etement;
32		25042	1.59	2.0E-60	AY008285.1	F	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; muclear gene for mitochondrial product
1465			2.25	2.0E-60	Z11694.1	NT	H. sapiens 41kDa protein kinase related to rat ERK2
1718				2.0E-60	M24603.1	NT	Human bcr protein mRNA, 5' end
2387	14891	27410		2.0E-60	AW380450.1	EST_HUMAN	RC1-HT0268-031299-012-f02 HT0268 Homo sepiens cDNA
2534		27548	14.37	2.0E-60	7857229 NT	ĺ	Hamo sapiens interleukin 17 receptor (IL17R), mRNA
2861	15154	27668	1.45	2.0E-60	AW978005.1	EST_HUMAN	EST390114 MAGE resequences, MAGO Homo saplens cDNA
3569				2.0E-60	TN 4757867 NT	NT	Homo sapiens v+raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
3928	16463	28871	1.61	2.0E-60	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
4141	16669		0.64	2.0E-60	BF513458.1	EST_HUMAN	UI-H-BW1-ems-e-05-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070952 3'
6628	72161	34034	780	2.05-50	A1701052 1	EST HIMAN	nn01112.y5 NCI_CGAP_Cc9 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains THR.t1 THR repetitive element:
6841	L		1.63	2.0E-60	AF004877.1	NT	Homo saplens pro-alpha 2(1) collegen (COL1A2) gene, complete cds
7088				2.0E-60	AF157478.1	TN	Homo saplens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
7247	Щ	30436	2.44	2.0E-60	4503044 NT	LN	Hamo sapiens corticotropin releasing harmone receptor 2 (CRHR2) mRNA
7247	18021	30437	2.44	2.0E-60	4503044 NT	TN	Hamo sapiens corticotropin releasing harmone receptor 2 (CRHR2) mRNA
7549	19999		3.7	20E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo saplens cDNA 5' end similar to similar to prothymosin, alpha
7549	19999	32841	3.7	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo saplens cDNA 5' end similar to similar to prothymosin, alpha
							tb23d09.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2055185 3' similar to SW:GALR_RAT
7672	_ 1	32973				EST_HUMAN	Q62805 GALANIN RECEPTOR;
8163	╝			1	BF512808.1	EST HUMAN	UI-H-BW1-amu-o-02-0-UI:s1 NCI_CGAP_Sub7 Hamo sapiens cDNA clone IMAGE:3071210 3'
8639			1.15		X85597.1	EST_HUMAN	HS15BEST human adult testis Homo saplans cDNA clone CAM_LEST16
9284	21696	34608	1.7	2.0E-60	L36033.1	NT	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
10017	22419	35369	2.47	2.0E-60	TN 65916811	LN.	Homo saplens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA

Table 4
Single Exon Probes Expressed in Lung

		Τ		<u> </u>	T	Τ	Τ	Τ	Τ	Τ	Γ	Τ	Τ	Ê	T	T	T	Τ	T	Γ	Ī		Γ	Γ	·T	T	T	Τ	T	Ī
Single Exon Flores Explessed III Luilg	Top Hit Descriptor	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA	Hano sapiens chromosame 21 segment HS21C079	Homo sapiens emyloid beta (A4) precursor protein (protesse nextin-ii. Alzheimer disesse) (APP) mRNA	Homo saptens 959 kb cantig between AML1 and CBR1 an chromosame 21a22: segment 1/3	Homo saplens T-cell lymphome invasion and metastasis 1 (TIAM1) mRNA	AU140307 PLACE2 Homo sapiens cDNA clone PLACE2000302 6'	Homo sapiens DKFZP568B023 protein (DKFZP568B023), mRNA	AV731140 HTF Homo saplens cDNA clone HTFARB01 5'	Homo sapiens hypothetical protein FLJ11026 (FLJ11028), mRNA	QV3-HT0513-060400-147-d01 HT0513 Homo saplens cDNA	QV3-HT0513-060400-147-d01 HT0513 Homo saplens cDNA	W53d11.s1 Scares fetal liver spiecn 1NFLS Homo sepiens cDNA clone IMAGE:246453 3' similar to gb:L25444 60S RIBOSOMAL PROTEIN L35A (HUMAN):	Homo seplens ATPese, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD) (ATP6N1A), mRNA	AV694317 GKC Hamo seplens cDNA clone GKCFI (308 5)	Homo sablens mRNA for KIAA0536 protein, perfiel cds	UHHF-BN0-akd-f-12-0-U.r1 NIH MGC 50 Homo samens cDNA clone IMAGE-3076774 F	Homo sapiens polymerase (RNA) III (DNA directed) (39KD) (RPC39), mRNA	Homo saplens ribosomal protein L44 (RPL44), mRNA	Homo sapiens chromosome 21 segment HS21C003	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L) mRNA	Homo saplens chromosome 21 segment HS21C003	Homo sapiens zona pellucida giycoprotein 3A (sperm receptor) (ZP3A), mRNA	xx11b09.y1 NCI_CGAP_LI5 Homo saplens cDNA clone IMAGE:2893389 5' similar to contains element MSR1 reneithe element	Homo saplens KIAA0806 dene product (KIAA0806), mRNA	QV2-HT0577-140300-077-406 HT0577 Homo sapiens cDNA	Human monoamine oxidase A (MAOA) mRNA, complete cds	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA	Homo saplens TRAF family member-associated NFKB activator (TANK) mRNA	UI-H-BW0-all-b-08-0-UI st NCI CGAP Sub8 Homp septens CDNA clone IMAGE: 273-2871 3
ום באטוו רוטג	Top Hit Database Source	5	TN	<u> </u>	K	F	77.1 EST HUMAN	 	EST_HUMAN	17	EST_HUMAN	EST_HUMAN	EST HUMAN	ļ	EST HUMAN		EST HUMAN	1	17	NT	71	IN	F	EST HIMAN		EST HUMAN	Ŋ	<u> </u>	누	EST HIMAN
Sul.	Top Hit Acession No.	4506008 NT	6.0E-61 AL163279.2	4502166 NT	5.0E-61 AJ229041.1	4507500 NT	4.0E-61 AU140307.1	7661637	4.0E-61 AV731140.1	8922829 NT	2.0E-61 BE168410.1	Γ	53039.1	1426166	2.0E-61 AV694317.1			1778	11419729 NT	AL163203.2	5453829 NT	AL163203.2	E005983 NT	1 0F-81 AW827281 1	2319	BE174455.1	M68840.1	4759249 NT	4759249 NT	1 0F-81 AW298181 1
	Most Similar (Top) Hit BLAST E Value	5.0E-61	5.0E-61	5.0E-61	5.0E-61	6.0E-61	4.0E-61	4.0E-61	4.0E-61	2.0E-61	2.0E-61	2.0E-61	2.0E-61 N	2.0E-61	2.0E-61	2.0E-81	2.0E-61	2.0E-81	2.0E-61	1.0E-81	1.0E-61	1.0E-81	1.0E-61	1 0F-81	1.0E-61	1.0E-61	1.0E-61	1.0E-61	1.0E-61	1 0F-81
	Expression Signal	2.07	2.02	4.15	2.1	0.83	1.1	0.58	4.69	1.64	3.12	3.12	96:0	0.83	1.27	0.91	1.71	2.9	3.74	0.92	1.26	1.01	2.83	1 08	0.92	1.17	1.41	0.83	0.83	10 49
	ORF SEQ ID NO:	26684	27962	28128		25381	26760	31362		25502	26228	26229	26670	32073	34691		35338	35581	-			26419	26851	27135	<u> </u>	28674	29184	28372		29799
	Exon SEQ ID NO:	14208	15550	15707				18668		13089		13781	14198	19308	21783	L	22387				ı	1	14352	14616	_	16270	16801		_ ,	17427
	Probe SEQ ID NO:	1678	2995	3154	3995	5105	1749	6609	11774	516	1243	1243	1885	6765	9351	9742	9985	10213	10667	452	795	1430	1830	2102	3353	3730	4276	4469	4469	4916

										пгуте Е2D 3										() eax			W:POL_MLVRK				R:015103				
Burn III popolity con	Top Hit Descriptor	H.sapiens carbonic anhydrase VII (CA VII) gene, exons 4,5,6, and 7, and complete cds	Homo saplens KIAA0783 gene product (KIAA0783), mRNA	Homo sapiens survival of motor neuron 1, telomento (SMN1), mRNA	Human P40 T-cell and mast cell growth factor (hP40) gene, complete cds	Homo saplens SC35-interacting protein 1 (SRRP129), mRNA	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA	Homo saplens hypothetical protein FLJ20128 (FLJ20128), mRNA	Homo saplens growth hormone releasing hormone (GHRH), mRNA	Homo saplens mannosidase, beta A, Iysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) senes. complete acts	MR0-BN0070-040400-010-h01 BN0070 Homo sapiens cDNA	Homo saplens cadherin 18 (CDH18), mRNA	Homo saplens KIAA0971 protein (KIAA0971), mRNA	Homo saplens actinin, alpha 4 (ACTN4), mRNA	Homo sapiens P/OKcl.19 mRNA for ubiquitin-conjyugating enzyme E2, complete cds	Homo sapiens mRNA for CSR2, complete cds	Homo sapiens gene for AF-6, complete cds	Homo saplens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Human kappa-Immunoglobulin germline pseudogene (Chr1) variable region (subgroup V kappa I)	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA	oc66h11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354725.3' similar to SW:POL_MLVRK P34795 POI POI YPROTEIN	AV714334 DCB Homo capiens cDNA clone DCBAMA08 6	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1)	Homo saplens hypothetical protein (FLJ20261), mRNA	qg56a04.x1 Soares_testis_NHT Homo saplens cDNA clone iMAGE:1839150 3' similar to TR:O15103	Human zinc finger protein ZNF131 mRNA partial cds	Homo sapiens CGI-68 protein (CGI-68) mRNA	W04d02x1 NCI CGAP CL1 Hamo sapiens cDNA clane IMAGE:23892513'	WINDAND VA NICE COAD CA 14 House sections COMA Section COAD CA 14 House sections COAD CA 14 Hous
21	Top Hit Database Source	ᅜ	F	NT.	ZI.	N-	N F	N FN	N	F	EST HUMAN	Į.	LN L	NT.	NT	NT	NT	Z	FX	NT	Ν	EST_HUMAN	EST HIMAN	EST HUMAN	TOAGSEWS	L	FST HIMAN	LN	Ş	EST HUMAN	EST LINAN
	Top Hit Acession No.	M76423.1	7662303 NT	11416891 NT	M30135.1	4759171 NT	8923130 NT	8923130 NT	11034840 NT	AF224669.1		11416280 NT	11428892 NT	11425578 NT	AB044550.1	AB007830.1	AB011399.1	11430460 NT	11430460 NT	M20809.1	11418127 NT	BE064386.1	AA830420.1		P17480	11427965	Al208681.1	Ι	418255	AI762801.1	A17R2R01 1
	Most Similar (Top) Hit BLAST E Value	1.0E-61	1.0E-61	1.0E-61	1.0E-61	1.0E-61	1.0E-81	1.0E-61	1.0E-61	1.0E-81	1.0E-61	1.0E-61	1.0E-61	1.0E-61	1.0E-81	1.0E-61	1.0E-61	1.05-61	1.0E-61	1.0E-61	1.0E-61	9.0E-62	8.015-62	7.0E-62	7.0E-62	7.0E-62	7.0E-62	6.0E-62	6.0E-62	6.0E-82	ROFBO
	Expression Signal	0.72	0.85	1.13	7.91	0.66	1.43	1.43	3.35	3.73	3.04	96.0	5.84	96.6	1.81	3.25	1.48	4.14	4.14	11.38	10.23	1.3	0.96	1.33	0.72	1.04	9,48	1.65	4.72	3.95	3.95
	ORF SEQ ID NO:	30835	31219	31441	32522	32815	32835	32936	34066	34202		34940	35409	35862	36135	36276		30587	30588	30926	30871	35639	29494	26117	28450	31483	36602		-	33458	33457
	Exan SEQ ID NO:	18238		18740		19981			21160	21294	21852							_1			- [22677	17103		16028	18777	23561	15508	15908	20579	20579
	Probe SEQ ID NO:	5649	5959	6172	7308	7530	7635	7635	8725	8860	9537	8288	10057	10433	10714	10852	11684	11707	11707	12100	12429	10276	4587	1134	3485	6211	11108	2953	3362	8156	8156

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8818			1.69	6.0E-62	11431139 NT	N-	Homo sapiens CGI-18 protein (LOC51008), mRNA
9286	22009	34937	3.48	6.0E-62	AW814393.1	EST_HUMAN	MR3-ST0203-130100-025-e09 ST0203 Homo saplens cDNA
433	13007	26433	3.07	5.0E-62	A1950528.1	EST HUMAN	wx51e07.x1 NCI_CGAP_Lu28 Homo septiens cDNA clone IMAGE.2547204.3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95, contains element MER22 repetitive element:
2305			2.33	5.0E-62	AJ271735.1	F	Homo saplens Xq pseudoautosomal radion: segment 1/2
2305	- 1		2.33	5.0E-62	AJ271735.1	N	Homo sapiens Xq pseudoautosomal region; segment 1/2
2512			16.0	5.0E-62	U39487.1	IN	Human xanthine dehydrogenase/oxidase mRNA, complete cds
2512	ı		0.91	5.0E-62	U39487.1	Z	Human xanthine dehydrogenase/oxidase mRNA, complete cds
3397	15943	28355	2.8	5.0E-62	4506758 NT	Z Z	Homo saplens ryanodine receptor 3 (RYR3) mRNA
4350	16872	29256	2.05	5.0E-82	AA431093.1	EST HUMAN	zw/8e09.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT P47245 NARDILYSIN
4595			1.02	5.0E-62		EST HUMAN	ROS-NN1089-100500-021-H03 NN1080 Hrmm remiens cDNA
8705	22128	35054	7.7	5.0E-62	19	EST HUMAN	ff07g09x1 NIH MGC 17 Home seniens cDNA clame IMAGE-2981646 5
11034	23461	36481	8.66	5.0E-62	11425574 NT	Į Į	Homo saplens muscle specific gene (Mg) mRNA
11034	23461	36482	8.66	5.0E-82	11425574 NT	Į.	Homo saplens muscle specific gene (Mg), mRNA
, 883	13419	25864	2	4.0E-62	4.0E-62 AW161479.1	EST HUMAN	eu/1403.y/ Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6. MITOCHONDRIAI PRECINSOR (HIMAN)
863	13419	26865	2	4.0E-62	AW161479.1	EST HUMAN	au/1403.y/ Schneider feltal brain 00004 Home septens cDNA clone IMAGE-2781701 6 similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6 MITOCHONDRIAI DEFICIENCE ALIMANIA
864	13419	25864	1.59		_ <	EST HUMAN	au71d03.y/ Schneider fetal brain 00004 Horno septem and Constitution (MAGE:2781701 8 similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6. MITOCHONDRIAI PRECURSOR (HIMAN):
864	13419	25865	.1.59	4.0E-62	4.0E-62 AW161479.1	EST HUMAN	au71403.y/ Schneider fetal brain 00004 Home septens oDNA clone IMAGE:2781701 5 similar to gb:M37104 ATP SYNTHASE COURT ING FACTOR & MITOCHONDRIAL DESCRIBED ALL MANN.
1491	14023		1.48	4.0E-62	4.0E-62 AA311281.1	EST HUMAN	EST182043 Jurkat T-cells V Homo saplens cDNA 6' end
2355	14860	27380	1.04	4.0E-62 A	1827900.1	EST_HUMAN	wf12b08.xf Soares, NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_ma1 HISTONE H28.2 (HUMAN);
2355	14860	27381	1.04	4.0E-82 A	1827900.1	EST HUMAN	wf12b08xf Soares_NFL_T_GBC_S1 Homo septens cDNA clone IMAGE:2360359 3' similar to ob.X57138 mat HISTONE H2R 2 (HI IMAM).
3377			8.32	4.0E-62	4557887	L	Homo sapiens keratin 18 (KRT18) mRNA
5392	17889	30247	4.06	4.0E-82	4768323 NT	ΙN	Homo sapiens enhancer of zeste (Drosophila) homolog 2 (EZH2) mRNA
6220	18786	31492	1.84	4.0E-82	4508978 NT		Homo seplens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
6624	19173	31927	2.68	4.0E-62	11420654 NT		Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X) mRNA

			_									_	-	-	_	_		_	—	- 7	м_п	m	-		٣,		_	~	*	~7	1001	m
	Top Hit Descriptor	Homo sapiens phosphoribosyl pyrophosphate synthetase 2 (PRPS2), mRNA	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39KD) (ElF2B2), mKNA	Homo saplens eukaryotic translation initiation factor 28, subunit 2 (beta, 39kD) (EIF2B2), mRNA	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA	Homo saplens mRNA for KIAA1263 protein, partial cds	H.saplens flow-scrited chromosome 8 Hindill fragment, SC6pA16D3	H.sapiens flow-sorted chromosome 6 Hindill fragment, SC8pA16D3	Homo sapiens mRNA for KIAA1102 protein, partial cds	Horno sapiens mRNA for KIAA1102 protein, partial cds	Homo saplens putative nuclear protein (HRIHFB2122), mRNA	Homo sapiens non-histone chromosome protein 2 (S. carevislae)-like 1 (NHP2L1), mRNA	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA	Homo saplens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo saplens neurofibromin 2 (bilateral accustic neuroma) (NF2) mRNA	Homo sapiens mRNA for KIAA1476 protein, partial cds	Homo sapiens mRNA for KIAA1476 protein, partial cds	Human cyclophilln-related processed pseudogene	wa33f04.x1 NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE:2299903 3' similar to contains THR.t2 THR recetitive element :	Homo saplens chromosome 21 segment HS21C084	EST178374 Colon carcinoma (HCC) cell line Homo saptens cDNA 5' end	RCO-BN0284-300600-031-e05 BN0284 Homo septens cDNA	RCO-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3	(UBE2D3) genes, complete cds	QV4-BT0257-081199-017-e03 BT0257 Homo sepiens aDNA	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds	er70e11.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1 CE03453 ;	Home seniens hypothetical profein FL 120212 (FL 120212), mRNA
	Top Hit Database Source	NT	NT	TN	TN	TN	NT	NT	N	NT	NT	NT	뒫	TN	F	FN	N F	Ę	٤	F	EST HUMAN	L	EST HUMAN	EST_HUMAN	EST HUMAN		NT	EST_HUMAN	N	Ł	EST_HUMAN	1
	Top Hit Acession No.	11421041 NT	7657057 NT	T657057 NT	11428973 NT			4.0E-62 278768.1		\B029026.1	11418086 NT	11418192 NT	11418322 NT	11417862 NT	11417862 NT	11430460 NT	4557794 NT	3.0E-62 AB040909.1	3.0E-62 AB040909.1	3.0E-62 X52858.1	9 DE -69 A 1639 733 4	2 0E-62 AL 163284.2	2.0E-62 AA307490.1	329911.1	329911.1		2.0E-62 AF224669.1	2.0E-62 BF330676.1	AF248540.1	L78810.1	1.0E-62 AA625207.1	TIM POCECOR
-	Most Similar (Top) Hit BLAST E	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62 2	4.0E-62 Z	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	3.0E-62	3.0E-62	3.0E-62	3.0E-62	9 DE 89	2.0E-62	2.0E-82	2.0E-62	2.0E-62 BF			20E-82				
	Expression Signal	1.88	2.35	2.35	1.1	7.27	2.91	2.91	3.08	3.08	1.99	1.86	2.44	7.06	7.06	3.18	0.82	1.05	1.05	8.76	2 30	2.67	0.48				3.65	31.44	1.34		1.01	
	ORF SEQ ID NO:	32916	33466	33467	34091	34593	36214	36215					30868	30865	30866				L					L	ŀ	L			26057			
	Exan SEQ ID NO:	20084	20587	20587	21189	21682	23230	23230	23819	23819	23997	24774	24450	24444	24444	24488	12895	L	l	ì	1		L		L		22560	L	L.	L	ł	1
.	Probe SEQ ID NO:	7815	8165	8165	8755	9260	10792	10792	11461	11461	11691	11923	12358	12412	12412	12470	11	3006	3006	3695	0000	1264	8457	9195	9195		10159	11419	1069	1667	1778	1

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5298	17796	30163	1.37		1.0E-62 AA148822.1	EST_HUMAN	zl06b08.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:491511 5' similar to SW:C561_BOVIN P10897 CYTOCHROME B561.;
6614	19164	31915	0.72	1.0E-62	52111.2	ΙN	Homo sapiens X28 region near ALD locus contahing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
7574	20024	32867	1.02	1.0E-62	1.0E-62 AA480060.1	EST_HUMAN	ab05c02.s1 Stratagene fetal retina 837202 Homo sapiens cDNA clone IMAGE:839906 3'
7585		32881				EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409771 3'
7585			2.9		1.0E-62 AA722878.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NbHH19W Horno sapiens cDNA clone IMAGE:4097713'
9384	21816			1.0E-62	7662289 NT	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9384	21816	34732			7662289 NT	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9410		34765	2.14			IN	H.saplens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
9410		34756	2.14		15533.1	ΙN	H.saplans lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
9737	22084	34991	2.6		7.	EST_HUMAN	aa33d08.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:815055 3'
11124	23576	36618	2.81	1.0E-62 Z		IN	H.saplens flow-sorted chromosome 6 Hindill fragment, SC6pA14D8
12217	24331		2.84		11418322 NT	님	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12445	24473	L	3	1.0E-62	11430460 NT	¥	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
362	12942	26356	2.63		9.0E-63 AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-705 ST0234 Homo sapiens cDNA
2240	14749		66'0		9.0E-63 C18159.1	EST HUMAN	C18159 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-558C10 5'
4053			9.82			IN	Homo saplens mRNA for KIAA0350 protein, pertial ods
4053		28975			AB002348.2	님	Homo sapiens mRNA for KIAA0350 protein, pertial ods
5493	18003	37000	2.81	9.0E-63	11418185 NT	IN.	Homo sapiens aconttase 2, mitochondrial (ACO2), mRNA
5724	18306		1.42	9.0E-63	Y15056.1	IN	Homo sapiens mRNA for PkB kinase
7628			3.61		11426985 NT	NT	Homo saplens nucleoporin 88kD (NUP88), mRNA
8433					X06178.1	NT	Human adult muscle mRNA fragment of DMD gene (DMD= Duchenne muscular dystrophy)
8454			0.76	9.0E-63	4885544 NT	N	Homo sapiens pyruvate dehydrogenase kinase, Isoenzyme 3 (PDK3) mRNA
8871			1.67	9.0E-63	11421160 NT	IN	Homo saplens Ras association (RaIGDS/AF-6) domain family 2 (RASSF2), mRNA
10680	23120	36098	217	9.0E-63	7662289 NT	Ę	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10680	23120				7662289 NT	Ŋ	Homo saplans KIAA0763 gene product (KIAA0763), mRNA
10821		36242	1.97	9.0E-63	BF203406.1	EST_HUMAN	601865828F1 NIH_MGC_17 Hamo sapiens cDNA clone IMAGE:4098487 6'
2238	14747		1.78	8.0E-63	4557734 NT	Ę	Homo sapiens monoamine oxidase A (MAOA), nuclear gene encoding mitochondrial protain, mRNA
2267		27.296	2.92	8.0E-63	5031810 NT	Ν	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3438					AF198349.1	TN	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
3438	15982	28398	5.1		8.0E-63 AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
		,					

Probe E SEQ ID SE	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptar
4282	16807	29191	3.32	8.0E-63	8.0E-63 AL163268.2	NT	Homo saplens chromosome 21 segment HS21C088
	17908	30260	96'0	8.0E-63		N F	Homo sapiens mRNA for KIAA1434 protein, partial cds
1	13505	ı		7.0E-63		EST_HUMAN	wm55g11.x1 NCI_CGAP_U12 Hamo saplens cDNA clane IMAGE:2439808 3'
5593	18181		28.55	6.0E-83	6.0E-63 AA420803.1	EST HUMAN	nc63102.r1 NCI_CGAP_Pr1 Homo saplens cDNA clone IMAGE:745947 similar to gb:Y00361 60S RIBOSOMAL PROTEIN (HUMAN);
3289	15838	28257	0.88	4.0E-63	l	N	Homo saplens chromosome 21 segment HS21C078
3816	16353	28762	1.15	l		N	Homo saplens mRNA for KIAA0707 protein, partial cds
3816	16353	28753	1.15			N	Homo saptens mRNA for KIAA0707 protein, partial cds
6787	19330	32098	1.8			EST_HUMAN	CM3-BT0595-190100-072-e09 BT0595 Homo saplens cDNA
6787	19330	32099	1.8			EST_HUMAN	CM3-BT0595-190100-072-e09 BT0595 Homo sapiens cDNA
10910	23342	36349	4.45			EST_HUMAN	UFH-Bi1-abq-a-02-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:27124823'
10910	23342	36350	4.45			EST_HUMAN	UFH-Bi1-abq-a-02-0-Ui.s1 NCI_CGAP_Sub3 Homo sepiens cDNA clone IMAGE:27124823'
						LOL	zu84b01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:744649 3' similar to contains L1.t1 L1
12522	24520				4.0E-63 AA629056.1	ESI HUMAN	repolitive element ; Homo canions mBNA for KIAA0747 roofsin partial cds
1000					T	L L	Transport Met the transport of the trans
2739	15229				100310.1	Z	Tumban merurungangangan
2780	13808					Z	Homo sapiens zno inger poem 144 (inter 10) (ZVV 144), infivity
6820	19361		.,		11545810	- 1	Homo sapiens hepatocellular carcinoma antigen gene bzd (LOCossizza), mkNA
9839	22242				BE876158.1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo sapiens oDNA clone IMAGE:3888253 6
9839	22242				BE876158.1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo saplens cDNA clone IMAGE:3888253 61
197	12800		1.56	2.0E-63	J07804.1	L L	Human DNA topolsomerase I mRNA, partial cds
204	12807	25224			4885226 NT	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
515	13088		1.17	2.0E-63	4557624 NT	FZ	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
849	13408	25849			7657042 NT	NT	Homo saplens Down syndrome candidate region 1 (DSCR1), mRNA
1586	14118	26686	1.4	2.0E-63	AB030388.1	TN	Homo saplens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1586	14118	26586	1.4	2.0E-63	AB030388.1	NT.	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1754	14281				BE410739.1	EST_HUMAN	601301627F1 NIH_MGC_21 Hamo saptens cDNA clane IMAGE:3636103 5'
3115	15668	28081	3.66	2.0E-63	4502168 NT	Ľ	Homo sapiens amyloid beta (A4) precursor protein (protease nextr-II, Alzheimer disease) (APP), mRNA
3247	15798		2.36	2.05-63	AF109718.1	LN	Homo sapiens chromosome 3 subtelomeric region
3917	16452			2.0E-63	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete ods
4923	17434	29809	1.24	2.0E-63 A	AF111167.2	TN	Homo sepiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene

Top Hit Descriptor	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. seplens) (LOC63214), mRNA	QV1-FT0170-040700-265-c05 FT0170 Hamo saplens cDNA	QV1-FT0170-040700-265-c05 FT0170 Hamo sapiens oDNA	Homo saplens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA	Human germline T-cell receptor beta chain Doparnine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV8S1A1T, TCRBV3S3, TCRBV3S1P, TCRBV3S1A1T, TCRBVAS2A2PT, TCRBVAS2A2PT, TCRBVAS2A4DT, TCRBVAS2A	TCRBV13Sg13S>	Homo saplens MIST mRNA, partial cds	Homo sapiens MIST mRNA, partial cds	Homo sapiens Carbonic enhydrase-related protein 10 (LOC56934), mRNA	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA	Homo sapiens mRNA for KIAA1624 protein, partial cds	Homo sepiens similar to sema domain, immunoglobulin domain (ig), short basic domain, secreted, (semenhorin) 34 (H. senions) (I. OCS3232), mRNA	(comprised) or (the copy of t	Homo sabiens kinesin family member 3B (KIF3B), mRNA	Homo sapiens kinesin family member 3B (KIF3B), mRNA	Homo saplens chromosome 21 segment HS210018	2b18b05.s1 Soares, fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:X17206 40S RIBOSOMAL PROTEIN S4 (HUMAN);	Homo sapiens neurexin Il Laipha gene, partial cds	Homo saplens neurexin III-alpha gene, partial cds	Homo sapiens mRNA for KIAA1497 protein, partial ods	Homo sapiens aspartyl professe 3 mRNA, partial cds	Homo saplens aspartyl protease 3 mRNA, partial cds	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA	HSCZVD111 normalized Infant brain cDNA Homo saplens cDNA clone o-zvd11	HSCZVD111 normalized Infant brain cDNA Homo saplens cDNA clone c-zvd11	Homo caplens Xq pseudoautosomal region; segment 2/2	QV0-ST0215-060100-083-b09 ST0215 Homo saplens cDNA	UI-H-BIS-8II-H-02-0-UI.s1 NCI_CGAP_Sub5 Homo saplens cDNA clone IMAGE:3088763 3'
Top Hit Database Source		EST_HUMAN	EST_HUMAN	Z	¥		<u> </u>	Z.	F	N.	TN	N.	5	L L	LZ.	Z Z	NT	EST HUMAN	Σ	ΙN	N	Ę	N	Ā	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	, 11419429 NT	2.0E-63 BF373541.1	2.0E-63 BF373541.1	11421940 NT	11421940 NT			AB032369.1	2.0E-63 AB032369.1	9910365 NT	9910365 NT	2.0E-63 AB046844.1	TN 21816244	8	11420949 NT	11420949 NT	AL163218.2	2.0E-63 N78945.1	2.0E-63 AF099810.1	AF099810.1	2.0E-63 AB040930.1	2.0E-63 AF200344.1	2.0E-63 AF200344.1	11418185 NT	1.0E-63 F08485.1	1.0E-63 F08485.1	1.0E-63 AJ271736.1	1.0E-63 AW582268.1	1.0E-63 AW451950.1
Most Similar (Top) Hit BLAST E Value	2.0E-83	2.0E-63	2.0E-63	2.0E-83	2.0E-63		2.0E-83 U68059.1	2.0E-63 /	2.0E-63 /	2.0E-63	2.0E-83	2.0E-63	200	2 OF A3 A1	2.0F-63	2.0E-63	2.0E-63 AL	2.0E-63	2.0E-63	2.0E-63 AF	2.0E-63	2.0E-63	2.0E-63	2.0E-63	1.0E-63	1.0E-63	1.0E-63	1.0E-63	1.0E-63
Expression Signal	19,1	3.26	3.26	0.78	0.78		0.84	0.47	0.47	1.56	1.58	0.95	74.0	89.6	1.26	1.28	98.0	25.65	3.8	3.8	34.86	22.19	22.19	7.12	2.47	247	1.86		0.75
ORF SEQ ID NO:	30346	31444	31445	31794	31795		32402			32513	32514	33649	93778			1_	35349	35958	35989			36985	36986	30671	29267	29268	30561		32034
Exam SEQ ID NO:	24586	18742	18742	19054	19054		19607	19661	19661	19711	19711	20764	20834	L		1_	22397	22975	23004	23004		23902	23902	24714	16886	16886			19274
Probe SEQ ID NO:	5612	6174	6174	9200	9200		7073	7128	7128	7508	7508	8339	8417	8000	9381	9381	9688	10528	10557	10557	11428	11545	11545	11807	4364	4364	2608	6050	6728

Top Hit Acession Database No. Source	AW451850.1 EST_HUMAN	AL163247.2 NT	AL163207.2 NT	AW401433.1 EST_HUMAN	AI478186.1 EST_HUMAN	BE280796.1 EST_HUMAN	BE885755.1 EST_HUMAN	11418177 NT	T60651.1 EST_HUMAN	BE394321.1 EST_HUMAN	4507490 NT	4507490 NT	4506786 NT	Y07848.1 NT		AI651992.1 EST_HUMAN	AI651892.1 EST HUMAN	AW026445.1 EST HUMAN	AW026445.1	Y18933.1 NT	Y18933.1 NT	.0E-64 M13975.1 NT Homo sepiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds	.0E-64 6912461 NT Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA	11422189 NT	.0E-64 11422189 NT Homo sapiens calcltonin receptor (CALCR), mRNA	11525879 NT	11525879 NT	.0E-64 11420656/NT Homo septens ecetyl-CoA synthetase (LOC55902), mRNA	.0E-64 AF274753.1 NT Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds	S76475.1 NT	11420197 NT	.0E-84 11420197 NT Homo sepiens stromal entigen 3 (STAG3), mRNA
 								11418177 NT			4507490 NT	4507490 NT	4506786 NT					Г					6912461 NT	11422189 NT	11422189 NT	11525879 NT	11525879 NT	11420555 NT			11420197 NT	11420197 NT
Most Similar (Top) Hit BLAST E Value	1.0E-63 AV	1.0E-63 AL	1.0E-63 AL			8.0E-64 BE		8.0E-64	_	7.0E-64 BE	7.0E-84	7.0E-64	7.0E-64	7.0E-64 Y		6.0E-64 AI	6.0E-64 AI	-			6.0E-64 Y	6.0E-64 M	6.0E-64	6.0E-64	8.0E-64	6.0E-64	6.0E-64	6.0E-84	6.0E-64 A	6.0E-64 S	6.0E-64	6.0E-84
Expression Signal	0.75	2.87	8.41	0.55	5.83	4.69	3.32	6.55	2.89	0.82	2.63	2.53	17.0	2.62		2.78	2.78	4.97	4.97	2.54	2.54	5.1	0.54	0.66	99.0	2.99	2.99	8.29	1.67	2.22		5.19
ORF SEQ ID NO:	32035			31544			31743				29679	29680		35413		26729	26730	L		31146	31147	31170	31178		31382		32983	34922	35035	35186		35983
Exen SEQ ID NO:	19274	21414	24836	18831	20973			23940	23979	16054	17296	17296	l	22461	_	14247	14247		L	乚	18468	18488	18497		I_			21983				22999
Probe SEQ ID NO:	6728	8981	12518	6268	8638	1072	6453	11607	11665	3511	4782	4782	8389	10060		1719	1719	3083	3083	5889	5889	5910	5919	6115	6115	7684	7684	9570	8695	9848	10552	10552

Probe SEQ ID NO:	Econ SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.		Top Hit Descriptor
10796	15637	28043	2.43	6.0E-64	AW026445.1		wv13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
10796	15637	28044	2.43	6.0E-64	AW026445.1	EST_HUMAN	wv/3e03.x/ NCI_CGAP_Bm23 Homo saplens cDNA clone IMAGE:2529436 3'
11826	24079	30989	4.6	6.0E-64	11526198 NT	NT.	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
843	13400	25840	2.84	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
843	13400	25841	2.84	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1370	13905	28361	1.01	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1453	13985	26446	1.6	5.0E-64	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1453	13985	28447	1.6		L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1709	14237	26722	1.13	5.0E-64	U89358.1	NT	Human ((3)mbt protein homolog mRNA, complete cds
2784	14041	26506	1.95	5.0E-64	7662205 NT	N	Homo saplens KIAA0618 gene product (KIAA0618), mRNA
2784	14041	26507	1.95	6.0E-64	7662205 NT	L L	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
3972	16507	28913	6.7	5.0E-64	AF017433.1	NT	Homo sapiens putative transcription factor CR63 (CR53) mRNA, partial cds
4122	16651	29037			AB020710.1	NT	Homo saplens mRNA for KIAA0903 protein, partial cds
5384	17881	30242	1.09	6.0E-64	4507184 NT	FN	Homo saplens nuclear antigen Sp100 (SP100) mRNA
8432	20848	33747	69.0	4.0E-64	BE794607.1	EST_HUMAN	601590382F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944397 5'
10595	3 23040	36024	2.64	4.0E-84	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-803 ST0197 Homo saplens cDNA
10595	3 23040	36025	2.54	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-e03 ST0197 Homo saplens cDNA
2103	14617	27138	6.3	3.0E-64	C18895.1	EST_HUMAN	C18895 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-569E02 5
3215	16767	7 28187	28.0	3.0E-64	BE794381.1	EST_HUMAN	601589565F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
3421	15965	5 28377	1.2	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sepiens cDNA clone DCAAMC01 6'
3421	15965	5 28378	1.2	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
6388			1.44		Z26273.1	NT	H.sapiens Isoform 1 gene for L-type calclum channel, exon 28
6871	19219	31965	0.77	3.0E-64	AW500861.1	EST_HUMAN	ULHF-BP0p-abc-05-0-ULr1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3073161 5'
6842	19383	32158	2.93	3.0E-64	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo saplens cDNA
8258	3 21411	34325			AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8978	3 21411	34326	2.16	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8668	21431	34339	3.55	3.0E-64	BE206521.1	EST HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
							bb72h12.y1 NIH_MGC_12 Homo saplens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ
8888					BE206521.1	EST HUMAN	PROTEIN HOMOLOG 2 (HUMAN);
1115					AA609940.1	EST_HUMAN	af09d08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031151 3'
1429	9 13962	26418	1.05	2.0E-64	4757701 NT	NT	Homo saplens elF4E-like cap-binding protein (4EHP) mRNA
2430	14933		6.55	2.0E-64	A1927030.1	EST HUMAN	we87b01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element L1 repetitive element :
	L						

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11262	23628	36677	6.88	8.0E-65 AI	929244.1	EST_HUMAN	au58h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to SW:RL21_HUMAN P48778 60S RIBOSOMAL PROTEIN L21.;
10153	L	35522	1.92	7.0E-65	E081653.1	EST_HUMAN	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA
11498	L			7.0E-65		EST_HUMAN	HSAAAEAWO TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test346 (b)
1082			1.72		6.0E-65 AV721898.1	EST_HUMAN	AV721898 HTB Homo saplens cDNA clone HTBBZC06 6
1875	14397		20.82		6.0E-65 AA550928.1	EST_HUMAN	nj86d10.s1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:998379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);
6922	19461	32239	1.08			EST_HUMAN	nh37b07.s1 NCI_CGAP_Pr5 Homo saplens cDNA clone IMAGE:954517
9172	21604	34514	2.04		_	EST_HUMAN	xc07b09.x1 NCI_CGAP_Co21 Homo sepiens cDNA clone IMAGE:2583545 3' similær to TR:Q83306 Q63306 LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORFS. ;contains L1.b2 L1 repetitive element;
9348	21780	34887	4.86		6.0E-65 AA427878.1	EST_HUMAN	zw53b06.s1 Soares_total_fetus_Nb2HF8_9w Homo saptens cDNA clone fMAGE:773747 3'
9348		34688	4.86			EST_HUMAN	zw53b06.s1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:773747 3'
10655	23095	36076	2.7	6.0E-65		EST_HUMAN	601340485F1 NIH_MGC_63 Homo saplens cDNA clone IMAGE:3682677 5
10819	23255		3.32			EST_HUMAN	602037721F1 NCI_CGAP_Bm64 Hamo saplens cDNA clone IMAGE:4183677 5'
11022			1.77	6.0E-65	1	EST_HUMAN	Ui-H-BI1-afq-d-10-0-Ui.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722626 3'
920					AF064604.1	NT	Homo sepiens KE03 protein mRNA, partial cds
1384	13919	26376	1.43	5.0E-65	7661951 NT	TN	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1384						TN	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
3216					4507848 NT	LN	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3218					4507848 NT	NT	Homo sepiens ubiquilin specific protease 13 (Isopeptidase T-3) (USP13) mRNA
7272					4504606 NT	TN	Homo sepiens interferon-related developmental regulator 1 (IFRD1), mRNA
10353	22763					NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
189	12802	25219	1.94		4.0E-65 AL120419.1	EST_HUMAN	DKFZp781G108_r1 761 (synonym: hamy2) Homo saplens cDNA clone DKFZp761G108 5'
768	13326	25756	1.29		4.0E-65 AI266468.1	EST_HUMAN	qm48e01.x1 Soeres_placenta_8to9weeks_2NbHP8to9W Homo sapiens oDNA clone IMAGE:1891800 3'
766	13326	25757	1.29	4.0E-65 A	1266468.1	EST_HUMAN	qm46e01.xf Soares_placenta_8tc9weeks_2NbHP8tc9W Homo saplens cDNA clone IMAGE:1891800 3'
1105	13649	26091	1.42	4.0E-65	4826735 NT	L	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1514	14048	26511	80'6	4.0E-85	4506636 NT	NT	Homo saplens ribosomal protein L34 (RPL34) mRNA
3961	16498	28905	0.93		4.0E-65 AW993185.1	EST_HUMAN	RC2-BN0033-160200-013-e03 BN0033 Homo septens cDNA
6469			4.24			NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
6469			7			NT	Homo septens mRNA for KIAA1267 protein, partial cds
7520	18971	32805	0.6			NT	Homo sapiens oxysterol binding protein-related protein 3 (ORP3) mRNA, complete cds
			!	i			

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Probe SEQ ID NO:	Exon SEQ ID · NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7556	20008	32848	0.93	4.0E-65	4.0E-65 M19879.1	NT	Human clabindin 27 gene, exons 10 and 11, and L1 and Alu repeats
7667	20113	L	2.04	4.0E-65	11545780 NT	ΙΝ	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
8063			0.68	4.0E-85	4.0E-85 U40372.1	LN L	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
8083	1		0.68	4.0E-65	4.0E-65 U40372.1	LN	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
8421	20835		0.54	4.0E-85	4.0E-85 U39656.1	NT	Human MAP kinase kinase 6 (MKK6) mRNA, complete cds
9436	21868	34783	0.89	4.0E-65	11429127 NT	ΝΤ	Homo saplens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10418	22819		1.88	4.0E-65	4.0E-85 AJ277546.2	IN	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
10733		36154	2.41	4.0E-65	Γ	EST HUMAN	AV738764 CB Homo saplens cDNA clone CBCCBE05 5
10883	23316		87.6		Γ	N	Homo sapiens PRO1474 mRNA, complete cds
12050	13649		1.34	4.0E-65	4826735 NT	FN	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
100	12718	25132	2.66	3.0E-65	5031976 NT	ĮN	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
101	12718		2.4		F031976 NT	ĮN.	Hamo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1265	15263		9.2	_	3.0E-65 X78932.1	NT	H.saplens HZF9 mRNA for zinc finger protein
							ov23f03.c1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
1798			0.98		1	EST HUMAN	MSR1 repetitive element :
2945	- 1		0.83	3.0E-65	D87078.2	NT	Homo saplens mRNA for KIAA0235 protein, pertial cds
3239	15790	28209	1.22	3.0E-65	4504950 NT	NT	Homo sapiens laminin, beta 1 (LAMB1), mRNA
3719	16259	28683	1.83	3.0E-65 A	A1000692.1	EST HUMAN	ov23f03.s.1 Sceres_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element MSR1 repetitive element;
		90.00	,			!	
10089	22490	35447	1 88		0812369 RF787366 1	EST HIMAN	HOLLO SEPTENTS (BOY OF L'ESSE SCHOOL SEPTEMBLE CONTROLL C
11142	L		8.24		ŀ	EST HUMAN	zw65e06.r1 Scares testis_NHT Homo saplens cDNA clone IMAGE:781042 5
3381	15927	28342	7.31	2.0E-65	2.0E-65 BF680294.1	EST HUMAN	602165062F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295968 5
6887	19427		4.4		2.0E-65 BE263373.1	EST_HUMAN	801190883F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3534741 5
7572	20022		28.69		2.0E-65 BF576922.1	EST_HUMAN	802134359F1 NIH_MGC_81 Homo sepiens cDNA done IMAGE:4289285 5
9249	21681	34591	1.24		AK024463.1	F	Homo sapiens mRNA for FLJ00056 protein, partial cds
9249	21681	34592	1.24		2.0E-65 AK024463.1	IN	Homo saptens mRNA for FLJ00056 protein, partial cds
10449	22900	35878	2.88		11419247 NT	Ę	Homo saplens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
11663	23978		4.64		AA307804.1	FST HUMAN	EST178755 Colon carcinoma (HCC) cell line Homo sapiens cDNA 6' end similar to similar to endogenous natrovints
12170			2.68		2.0E-65 BF246086.1	EST HUMAN	801854033F1 NIH_MGC_57 Homo saplens cDNA done IMAGE:4073769 67

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptur
88	12710		. 0.8	1.0E-65	BF125544.1	EST_HUMAN	601763488F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026501 5'
557	13129	25539	1.83	1.0E-85	7657495 NT		Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA
3349	15895	28317	1.33	1.0E-65	BE466681.1	EST_HUMAN	hz24a09.x1 NCI_CGAP_GC6 Homo sapiens oDNA clone IMAGE:3208888 3'
4012	16545	28942	2.51	1.0E-65	4504082 NT	NT	Homo saplens glypican 4 (GPC4) mRNA
4012	16545	28943	2.61	1.0E-65	4504082 NT	LN.	Homo saplens glypican 4 (GPC4) mRNA
4222	L	29136	3.08	1.0E-65	AW029340.1	EST_HUMAN	wx08c09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:25431523'
4222	16747	29137	80.8	1.0E-65	AW029340.1	EST_HUMAN	wx09c09.x1 NCI_CGAP_Gas4 Homo saplens cDNA clone IMAGE:2543,152.31
5537			0.48		BE089509.1	EST_HUMAN	QV0-BT0702-170400-194-t09 BT0702 Homo sepiems cDNA
5537	18127	30483	0.48	1.0E-65	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194-f09 BT0702 Homo saplens cDNA
5737	18319	30764	99.0	1.0E-86	AI243738.1	EST HUMAN	ph88h07.x1 Scares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1854109 3' similar to TR:Q07823 Q07823 MAC30 PROTEIN;
8816	21250	34155	2.2		AW820481.1	EST_HUMAN	QV2-ST0298-140200-042-f12 ST0298 Homo sapiens cDNA
8816			22		AW820481.1	EST_HUMAN	QV2-ST0298-140200-042-112 ST0298 Homo sapiens cDNA
8865	l.,	34208	2.59	1.0E-65	AU141295.1	EST_HUMAN	AU141285 THYRO1 Homo saplens cDNA clone THYRO1000356 6
8865		34209	2,59	1.0E-85	AU141295.1	EST_HUMAN	AU141295 THYRO1 Homo saplens cDNA clone THYRO1000356 5
9244	21676		12		BF698707.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5
9355		34695	1.69	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo saplens cDNA clone NT2RP2004714 5'
9355	21787	34696			AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo saplens cDNA clone NT2RP2004714 5'
9383	21795		3.22	1.0E-65	11431894 NT	NT	Homo sapiens inosital 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
9876	22023	34952	6.42	1.0E-65	AI191716.1	EST HUMAN	qd68e02.x1 Soares_testis_INHT Home sapiens cDNA clone IMAGE:1733450 3' stmitar to gb:M29581 ZINC FINGER PROTEIN 8 (HUMAN);contains MER19.11 MER19 repetitive element;
9958	L				AU153783.1	EST_HUMAN	AU153793 NT2RP3 Hamo sapiens cDNA clane NT2RP3004016 3'
10413		36788	1.13	1.0E-65	AB037832.1	¥	Homo saplens mRNA for KIAA1411 protein, partial cds
10442	22893			1.0E-65	M26167.1	F	Human platelet factor 4 varation 1 (PF4var1) gene, complete cds
10581	23008	32882	25.13	1.0E-65	4506660 NT	뒫	Homo saptens ribosomal protein L7a (RPL7A) mRNA
10908	3 23340	36346	L	1.0E-65	BF698707.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo saplens cDNA clone IMAGE:4283313 5
10986	23416	36429	3.24	1.0E-65	A1621017.1	EST HUMAN	ts76a06.x1 NCL_CGAP_GC6 Homo saplens cDNA clone IMAGE:2237170 3' similar to gb:L15533_ma1 PANCREATITIS ASSOCIATED PROTEIN 1 PRECURSOR (HUMAN);
11713	24012		2.78	1.0E-65	11418041	F	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
11819	24075	30986	6.42	1.0E-65	11418322 NT	F	Homo saplens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12270	24364		1.91	1.0E-65	11418248 NT	F	Homo saplens sulfotransferase-related protein (SULTX3), mRNA
74					AL160311.1	NT	Novel human gene mapping to chomosome 22
74		25104				NT	Novel human gene mapping to chomosome 22
1512	14044		5.72	9.0E-88	M87299.1	5	Human transposon-tike element, partial

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Probe E SEQ ID SE NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3909	16444	28850	0.67	9.0E-66	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete ods
	16444	28851	0.87	9.0E-66	M72393.1	IN	Human calcitum-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
	17254	29634	0.81	8.0E-66	AA424304.1	EST_HUMAN	2x90c05,r1 Soares_NHHMPu_S1 Hamo sapiens cDNA clane IMAGE:767048 5'
1	16909	29292	1.01	6.0E-66	Al924653.1	EST_HUMAN	wn57h07x1 NCI_CGÂP_Lu19 Homo sapiens cDNA done IMAGE:2449597 3' similar to WP:F15G9.4A CE18595;
	16909	29283	1.01	8.0E-68	Al924653.1	EST_HUMAN	wn57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA done IMAGE:2449597 3' similar to WP:F15G9.4A CE18595;
	16908	29294	1.01	6.0E-66	Al924653.1	EST HUMAN	wn57h07 x1 NCI_CGAP_Lu19 Homo sapiens cDNA cione IMAGE:2449597 3' similar to WP:F15G9.4A CE18595;
	23369	36378	3.49	6.0E-66	X69181.1	NT	H.sapiens mRNA for ribosomal protein L31
1389	13933	26390	1.39	5.0E-88	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
9547	21962	34884	13.1	5.0E-66	11420557 NT	N	Homo saplens, thyroid hormons receptor binding protein (AIB3), mRNA
	13371	25808	1.04	4.0E-66	6679816 NT	NT	Mus musculus fregile X mental retardation syndrome 1 homolog (Fmr1), mRNA
	14689	27213	1.42		X89211.1	NT	H.saplens DNA for endogenous retroviral like element
	14874		5.8		AJ22336	NT	Homo saplens germ-line DNA upstream of Jkappa locus
4836 1	17348		89.68	4.0E-68	9635487 NT	NT	Human endogenous retrovirus, complete genome
	18395	31058	3.76	4.0E-66	11428643 NT	۲	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyitetrahydrofate cyclohydrolase (MTHFD2), mRNA
	18594	31281	2.5	4.0E-66	AW939119.1	EST_HUMAN	QV1-DT0069-110200-067-910 DT0069 Homo sapiens cDNA
7255	18029	30412	5.18	4.0E-88	AW965473.1	EST_HUMAN	EST377546 MAGE resequences, WAGI Homo seplens cDNA
7671	20021	32864	8.37	4.0E-66	U78168.1	NT.	Homo sapiens cAMP-regulated guanine nucleotide exchange factor i (cAMP-GEFI) mRNA, complete cds
8160	18395	31058	1.13	4.0E-66	11428643 NT	Ä	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate oyclohydrolase (MTHFD2), mRNA
	21125	34025	6.4		11421638 NT	Ę	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mRNA
8726	21161	34067	1.06	4.0E-68	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
10452	22903	35882	4.34		BF507493.1	EST_HUMAN	UI-H-BW1-amr-a-10-0-UI.s1 NC _CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070747.3'
11133	23585	36626	2.57		AB023215.1	NT	Homo sapiens mRNA for KIAA0998 protein, partial cds
1458	13990	26453	4.81	3.0E-66	4502098 NT	F	Homo sepiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC2545), nuclear gene encoding mitochondrial protein, mRNA
1458	13990	28454	4 81	305-88	TN 8802084	<u> </u>	Homo septens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (St. C25A5), nuclear gene encoding mitochondrial protein, mRNA
1_	15150	27861	7.2			¥	Homo saplens TGF(beta)-Induced transcription factor 2 (TGIF2), mRNA
3078	15632	28039	7.68	3.0E-66		N.	Homo saplens KIAA0649 gene product (KIAA0649), mRNA
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Probe E SEQ ID SE NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6726	18307	30738	0.79	3.0E-66	3.0E-66 AB020699.1	NT	Homo saplens mRNA for KIAA0892 protein, partial cds
5842	18422	31091	0.71	3.0E-66 M	13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
6053	18625	31315	1.86	3.0E-66	11417946 NT	<u>۲</u>	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
	18626	31316	1.86	3.0E-66	11417946 NT	17	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
	22494	35453	0.95	3.0E-66	7019480 NT	エフ	Homo sapiens protocadherin beta 1 (PCDH-beta1), mRNA
10388	22788	35758	1.08	3.0E-86	3.0E-66 AF155659.1	NT	Homo sapiens molybdenum cofactor biosysthesis protein E (MCBPE) mRNA, complete cds
11263	23629	36678	6.76	3.0E-66	5453949 NT	È	Homo sapiens protein phosphatase 2, regulatory subunit B (B69), alpha isoform (PPP2R5A) mRNA
	12674	25073	1.65	2.0E-68	7657334 NT	ラ	Homo sapiens Misshapen/NIK-related kinase (MINK), mRNA
83	12674	25074		2.0E-88	7657334 NT	77	Homo sapiens Misshapen/NIK-related kinase (MINK), mRNA
439	12617	25004	12.1	2.0E-86	4505524 NT	F	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC6L) mRNA, and translated products
-69	130	1000				<u> </u>	Homo saplens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated
4803	12617 14378	2000	12/	2.0E-66	4605524	- LZ	products Homo seniens chromosome 21 segment HS21Ct01
2430	14652	27474		2.0E-00	1	FZ	H. sapiens pseudogene for the low affinity IL-8 receptor
2928	16483	27904		2.0E-66	2.0E-66 X65859.1	Ę	H.saplens pseudogene for the low affinity IL-8 receptor
3501	16044	28465		2.0E-88	8923290	NT.	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3765	16304	28704	0.79	2.0E-66	2.0E-66 AL117233.1	NT	Novel human gene mapping to chomosome 1
4080	16611	28999	0.68	2.0E-68		NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
4700	17216	29597	62.42	2.0E-68		NT	Homo saplens HLA-B gene for human leucocyte antigen B
4700	17216	29598)			NT	Homo sapiens HLA-B gene for human leucocyte antigen B
6100	18669	31363	0.94			EST_HUMAN	EST380930 MAGE resequences, MAGJ Homo sapiens cDNA
0100	18669	31364	0.94	2.0E-66	2.0E-66 AW968864.1	EST HUMAN	EST380930 MAGE resequences, MAGJ Homo sapiens cDNA
9251	21683	34594		2.0E-66	N45480.1	EST HUMAN	yy59c02.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:277826 5'
12057	24928		2.72	2.0E-66	11418318	TN	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
2847	15403	27822	1.77	1.0E-68	1.0E-68 AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
2847	15403	27823	1.77	1.0E-66	1.0E-66 AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4407	15403	27822	4.02	1.05-66		EST HUMAN	AV717817 DCB Hamo sapiens cDNA clane DCBADC07 6'
4407	15403	27823	4.02	1.0E-66		EST_HUMAN	AV717817 DCB Hamo sepiems aDNA clane DCBADC07 5'
5637	18224	30624	5.72	1.0E-66		EST_HUMAN	602152998F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294151 5
6061	18633		0.89	1.0E-66	П	EST_HUMAN	IL2-NT0101-280700-110-E04 NT0101 Homo seplens cDNA
6061	18633	•				EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sepiens cDNA
7349	19760	32567	1.55		1.0E-66 BF328623.1	EST_HUMAN	RC5-BN0193-010900-034-G08 BN0193 Homo sapiens cDNA

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8971	21404	34318	1.1	1.0E-66 AA	AA668858.1		aa80e04.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:827282 3'
10285	5 22686	35649			1.0E-66 AV748749.1	EST_HUMAN	AV748749 NPC Homo saplens cDNA clone NPCBVA05 5'
10285	22686				1.0E-66 AV748749.1	EST_HUMAN	AV748749 NPC Homo saplens cDNA clone NPCBVA05 5'
10722	23160	36144	2.88		1.0E-66 AF111167.2	¥	Homo sapiens jun dimerization protein gene, pertial cds; cfos gene, complete cds; and unknown gene
11277	Ļ		1.97		1.0E-66 AW968744.1	EST_HUMAN	EST380820 MAGE resequences, MAGJ Homo saplens cDNA
11553			1.78		BE564346.1	EST_HUMAN	601343157F1 NIH_MGC_83 Homo seplens cDNA clone IMAGE:3885143 5'
11653		36996	1.78	_	BE5643	EST_HUMAN	601343157F1 NIH MGC_53 Homo seplens cDNA done IMAGE:3685143 5
11824	L		2.71		11418177 NT	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
4987	17497		0.63		8.0E-67 M78158.1	EST HUMAN	EST01750 Subtracted Hippocampus, Strategene (cat. #936205) Homo sepiens cDNA clone HHCPN31 similar to L1 repetitive element
395	5 13011	25434	1.2		7.0E-67 AW162232.1	EST HUMAN	8u75d02xt Schreider fetal brain 00004 Homo septens cDNA clone IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 8, MITOCHONDRIAL PRECURSOR (HUMAN);
	L.,						EST96812 Testis I Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, cosmid
1414	13948		1.5		7.0E-67 AA383416.1	EST_HUMAN	ZK353
1577	7 14108	26571	1.3		7.0E-67 W85947.1	EST_HUMAN	zh56b05.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens oDNA clone IMAGE:416049 5'
1577	7 14108		1.3	7.0E-67 W	W85947.1	EST_HUMAN	zh56b05.r1 Soares_fetal_liver_spieen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
1967	7 14485		1.11		7657243 NT	NT	Homo sepiens Inosital 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
1967	7 14485	26994	1.11	7.0E-67	7657243 NT	NT	Homo sapiens Inositol 1,3,4-triphosphate 5/8 khase (ITPK1), mRNA
2768	1		1.05		7.0E-67 AW162232.1	EST_HUMAN	au75d02.x1 Schneider fetal brein 00004 Homo sepiens cDNA done IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
6388	8 18945	31681		7.0E-67	10190695 NT	TN	Homo saplens zinc finger protein 304 (ZNF304), mRNA
6594	4 19145	31893	1.96	7.0E-67	11425572 NT	TN	Homo sepiens edaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6594	4 19145	31894	1.96	7.0E-87	11425572 NT	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
7089	9 19632	32427	1.31	7.0E-67	4885084 NT	N.	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD) (ATP6N1A), mRNA
8162		33463	1.14	7.0E-87	11419212 NT	N-	Homo saplens mitochondrial carrier family protein (LOC55972), mRNA
8162					11419212 NT	N _T	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
986	9 21303	34213	0.93		4557732 NT	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
11410		!			U82486	NT	Human cytochrome oddase subunit Via (COX8A1P) pseudogene, complete cds
11588	8 23925	37004	1.19	7.05-67	11430460 NT	TN	Homo septens low density lipoprotain-related protein 2 (LRP2), mRNA
11588	8 23925				11430460 NT	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12084		5 30962			AB0113	LN.	Homo sapiens gene for AF-6, complets cds
12504	4 24508		1.2	2 7.0E-67	11421527 NT	NT	Homo sapiens calcium channel, voltage-dependent, alpha 2/delta subunit 1 (CACNAZD1), mRNA

-			(229 5	·	li I			727283 3							sase) (APP), mRNA	3E:448015 3'	GE: 3'			648163 5' similar to	648163 5' similar to	9000	2 + 760			mRNA						
Top Hit Descriptor	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete ods	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds	DKFZp761A229_r1 761 (synonym: hamy2) Homo saplens cDNA clone DKFZp761A229 5	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin	RC4-BT0586-170100-011-c07 BT0568 Homo sapiens cDNA	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA	UI-H-BIZ-ahn-e-10-0-UI:s1 NCI_CGAP_Sub4 Homo saplens cDNA clone IMAGE:2727283 3'	602140470F1 NIH_MGC_46 Homo capiens cDNA clane IMAGE:4301705 5'	601455262F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3858975 61	Homo sapiens KIAA0985 protein (KIAA0985), mRNA	EST64790 Hippocampus II Hamo sapiens cDNA 6' end	PM2-TN0103-040900-001-c02 TN0103 Homo sapiens cDNA	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA	Homo saplens amyloid beta (A4) precursor protein (protease nexin-li, Alzheimer disease) (APP), mRNA	290b04.s1 Soares_feta_liver_splean_1NFLS_S1 Horno sapiens cDNA clone IMAGE:448015 3	nab61f08.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE: 3'	Homo saplens mitogen-ectivated protein kinase 6 (MAPK6), mRNA	601448558F1 NIH_MGC_65 Homo sapiens cDNA clane IMAGE:3852254 5'	zq82h10.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW:SAV_SULAC Q07690 SAV PROTEIN. ;	zq82h10.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to	SW:SAV_SULAC:Q07689 SAV PROTEIN;	Constitution of the control of the c	EST365613 MAGE resequences, MAGC Homo sapiens cDNA	EST365613 MAGE resequences, MAGC Homo saplens cDNA	Homo sapiens brefeldin A-Inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA	601452067F1 NIH_MGC_66 Homo sepiens oDNA clone IMAGE:3855761 5	Homo sapiens chromosome 21 unknown mRNA	Homo saplens chromosome 21 unknown mRNA	Homo sapiens chromosame 21 unknown mRNA	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens mRNA for KIAA1431 protein, partial cds
	Ното saplens	Homo saplens	DKFZp761A2	EST38850 En	EST38850 Em	RC4-BT0586-	RC4-BT0568-	UI-H-BIZ-ahn-	602140470F1	601455262F1	Homo saplens	EST64790 His	PM2-TN0103-	Homo sapiens	Homo saplens	z190b04.s1 So	nab61f08.x1 S	Homo saplens	601448558F1	SW:SAV_SU	2q82h10.r1 St	SW:SAV_SU	חום-גוניוס	EST365613 N	EST365613 N	Homo sapiens	601452067F1	Homo saplens				
Top Hit Database Source	TN	IN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	IN	EST_HUMAN	EST_HUMAN	NT	NT	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST HUMAN		EST HUMAN	ESI HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	IN	NT	NT	IN	Į.
Top Hit Acesslan No.	B051763.1	\B051763.1	AL120542.1		AA334609.1	AW602635.1	AW602635.1	AW293624.1		BF034485.1	36448	AA348111.1	BF377169.1	11418189 NT	4502168 NT	AA702794.1	BF439247.1	4506090 NT	BE870732.1	AA209458.1		AA209456.1	AW 503842.1	AW953543.1	AW953543.1	11422086 NT	BE612554.1	AF231919.1	AF231919.1	AF231919.1	AF231919.1	AB037852.1
Most Similar (Top) Hit BLAST E Value	Q	2.0E-67	2.0E-67		_		2.0E-67		į	_			2.0E-67	2.0E-67	1.0E-67	1.0E-67	1.0E-67	9.0E-68	8.0E-68	8.0E-68						6.0E-88	6.0E-68	6.0E-88	5.0E-68	5.05-68	6.0E-88	5.0E-68
Expression Signal	2.12	2.12	0.68	1.07	1.07	0.92	0.92	1.02	3.04	2.82	2.62	5.78	1.66	2.2	5.63	1.16	0.71	3.66	1.69	7.07		7.07	1.09	0.5	9.0	2.67	1.61	0.81	0.81	5.58	5.58	3.25
ORF SEQ ID NO:	31825	31926	32325	34386	34387	34674	34675		36104	36243			35832	30682	25282				27116	28815		28816			33365			25821	26822		25839	
Exon SEQ ID NO:	19172	19172	19541	21474	21474	21771	21771	22245	23124	23258	25001	73444	22858	24773	12864	L	17278	23865		16412	_				20489	22740		15259	15259	13399	13399	15660
Probe SEQ ID NO:	8623	6623	7005	9042	9042	8339	6236	9842	10684	10822	10838	11017	11206	11954	266	728	4762	11507	2084	3877		3877	1805	8028	8028	10340	12283	825	825	842	842	3107

				•	9		
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression. Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7103	19636	32430	0.66	5.0E-68	7019512 NT		Homo sapiens RAB3A Interacting protein (rabin3)-like 1 (RAB3IL1), mRNA
7103	19636	32431	99.0	5.0E-68	TN 219512 NT		Homo sapiens RAB3A interacting protein (rabin3)-like 1 (RAB3IL1), mRNA
2432	14935		3.09	4.0E-68	11421388 NT	לד	Homo sapiens transcription factor NRF (NRF), mRNA
2432	14935	27450	3.09	4.0E-88	11421388	ΛT	Homo saplens transcription factor NRF (NRF), mRNA
5071	17581		4.94	4.0E-68 PC		SWISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
6264	18828		99.0	4.0E-68	4.0E-68 AF157063.1	NT	Homo sapiens sedlin (SEDL) gene, exon 4
7156	19869	32691	99'9	4.0E-68	11055991 NT		Homo saplens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7156	19869		6.68	4.0E-68	11055991 NT	TV	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
8220	20639		0.78	4.0E-68	7661683 NT	TN	Hamo sapiens DKFZP586L0724 protein (DKFZP586L0724), mRNA
9369	21801	34709	6.77	4.0E-68		NT	Homo saplens mRNA for KIAA0145 protein, partial cds
9369	21801	34710	6.77	4.0E-68		NT	Homo sepiens mRNA for KIAA0145 protein, partial cds
9459	21890	34811	3.61	4.0E-68	4.0E-68 AB040918.1	LN	Homo sapiens mRNA for KIAA1485 protein, partial cds
10783	L.	36203		4.0E-68	4506282 NT	N	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
10783	L	36204		4.0E-68	4506282 NT	N-	Homo saplens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
3660	L	28606	3.32	3.0E-68 A	F236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
							q38h02.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1950291 3' similar to contains
0996	20951		3.82	3.0E-68 A	342323.1	EST_HUMAN	THR.2 THR repetitive element :
10377	22777	35745	1.8			EST_HUMAN	HSPD18178 HM3 Homo septens cDNA clone s3000023D09
12608	24689		1.49			EST_HUMAN	QV1-DT0072-010200-056-h06 DT0072 Homo saplens cDNA
2815	I _		31.74		2.0E-68 D00522.1	K	Cricetulus longicaudatus mRNA for EF-1 alpha, complete cds
							71502.x1 NCI_CGAP_CL1 Homo saplens cDNA clone IMAGE:3294747 3' similar to TR:080828 080828
4037						EST_HUMAN	HYPOTHETICAL 88.8 KD PROTEIN.;
4728		29626			2.0E-68 AB008681.1	뉟	Homo saplens gene for activin receptor type IIB, complete cds
7279	19784		11.82		R45088.1	EST_HUMAN	yg39g04.s1 Soares Infant brain 1NIB Homo sapians cDNA clone IMAGE:34898 3
7495	19689	32497	4.44	2.0E-68 B	BF035316.1	EST_HUMAN	801458514F1 NIH_MGC_68 Homo sepiens cDNA clone IMAGE:3862034 5
							Homo sapiens UDP-N-ecetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltransferase 8
7663			0.55	-		닐	(GalNAc-T8) (GALNT8), mRNA
7843		33145				EST HUMAN	L3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
11706	24947		2.15		BE897376.1	EST_HUMAN	801437367F1 NIH_MGC_72 Homo septens cDNA clone IMAGE:3922192 6"
82	12699	25113	1.2	1.0E-68	3 4505222 NT	M	Homo sapiens meningloma (disrupted in balanced translocation) 1 (MN1), mRNA
310	12905		13.18		1.0E-68 AW816405.1	EST_HUMAN	QV4-ST0234-181189-037-f05 ST0234 Homo sapiens cDNA
2157					3B011149.1	TN	Homo sepiens mRNA for KIAA0577 protein, complete cds
2157					3 AB011149.1	IN	Homo sepiens mRNA for KIAA0577 protein, complete cds
2716	15205	5 27722	2.16		1.0E-68 AW451832.1	EST_HUMAN	UI-H-BB-alk-f-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:27372723'

Table 4 Single Exon Probes Expressed in Lung

Most Similar (Top) Hit Acession Database Top Hit Descriptor Source Source	1.0E-68 AA897343.1 EST_HUMAN al47g12.s1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA done IMAGE:1460618.3'	1.0E-68 BE296032.1 EST_HUMAN 601177002F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532344 5'	1.0E-68 7682349 NT Homo sapiens cell recognition molecule Caspr2 (KIAA0888), mRNA		11418869 NT	1.0E-68 11418869 NT Homo sapiens phosphodiesterase 7B (PDE7B), mRNA	1.0E-68 L76416.1 NT Homo sapiens MIF2 suppressor (HSMT3) mRNA, complete cds	1.0E-88 11433277/NT Homo sapiens myosin IC (MYO1C); mRNA	1.0E-68 AF043129.1 NT Homo sapiens Interleukin-7 receptor preoursor (IL/R) gene, exons 7 and 8 and complete cds	1.0E-68 U50319.1 NT Human protein kinasə C substrate 80K-H (PRKCSH) gene, exon 4-5	1.0E-68 U50319.1 NT Human protein kinasa C substrate 80K-H (PRKCSH) gene, exon 4-5	1.0E-68 11418431 NT Homo sapiens CGI-76 protein (LOC51632), mRNA	1.0E-68 11418431 NT Homo sapiens CGI-76 protein (LOC51632), mRNA	1.0E-88 4505222 NT Homo sapiens meningiome (disrupted in balanced translocation) 1 (MN1), mRNA	1.0E-68 11430460 NT Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	1.0E-68 11418213 NT Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA	9.0E-69 5031976 NT Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA	9.0E-69 6031976 NT Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA	9.0E-69 5031980 NT Homo sapiens 265 proteasome-associated pad1 homolog (POH1) mRNA	5031980 NT		AF057177.1 NT	9.0E-69 AU117241.1 EST_HUMAN AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000968 5'	AJ237744.1 NT	7.0E-89 9966912 NT Homo sapiens actin-related protein 3-bota (ARP3BETA), mRNA	qe62h01.x1 Sogres_fetal_lung_NbHL19W Homo saplens cDNA clone IMAGE:1743601 3' similar to 6.0E-69 A192784.1 EST_HUMAN gb:L11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);	A1192764 1 EST HUMAN	AA826039.1 EST HUMAN	AI873630.1 EST HUMAN	BE561063.1	AI764973.1 EST_HUMAN
			7662349 NT	11436716 NT	11418869 NT	11418869 NT		11433277 NT				11418431 NT	11418431 NT	4505222 NT	11430460 NT	11418213 NT	5031976 NT	5031976 NT	5031980 NT	5031980 NT	4757867 NT				9966912 NT						
	_		1.0E-68	1.0E-88			_		1.0E-68	1.0E-68	1.0E-68		1.0E-68									9.0E-69	69-30'6	8.0E-69		69-E09	6.0E-69	5.0E-69	4.0E-69	4.0E-69	4.0E-69
Expression Signal	1.07	2.05	2.03	0.73		1.75	3.87	2.3	2.16	5.48	5.48	2.99	2.99	1.96	1.44	1.45	12.26	12.26	0.84	0.84	0.78	6.0	3.45	1.55	5.84	5.82				1.68	5.04
ORF SEQ ID NO:	30000	30088	30528	33522	36055	36056	36105	36407	36476	36521	36522	36823	36824	25113	30573		25028	25029	26038	26039		30228			31981	33871	33872			31302	31386
SEQ ID NO:	17638	17704	18163	20633	23070	23070	23126		23456	23494	23494	23763	23763	12699	24876	24546		12641	13599	13599			23112	15910	19231	20970		21755	L	24598	18699
Probe SEQ ID NO:	5133	5201	5675	8213	10628	10628	10685	10966	11029	11069	11069	11402	11402	12263	12500	12684	21	21	1053	1053	4146	5371	10872	3364	6683	8535	8535	9323	538	6041	6130

Top Hil Descriptor	Homo sapians latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	601110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5	Homo saplens Smad- and Oif-Interacting zinc finger protein mRNA, partial cds	Homo sapiens lymphatic vessel endothelial hyaluronan receptor 1 (LYVE-1) mRNA	Homo sepiens aconitase 2, mitochondriai (ACO2), mRNA	Homo sapiens dNT-2 gene for mitochondrial 5′(3′)-deoxyribœnucleotidase (dNT-2 gene), excms 1-5	Homo saplens sperm surface protein (HSS), mRNA	Homo sepiens short chein L-3-hydroxyscyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds	Homo sepiens arm-repeat protein NPRAP/neurojungin (CTNND2) mRNA, partial cds	Homo sapiens TRAF6-binding protein T68P mRNA, complete cds	UI-H-BI1-acw-g-01-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18	H.sapiens mRNA for N-acetylglucosamido-(beta 1-4)-galactosyftrensferase	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor	(MIF)-related protein	Homo sapiens ribosomal protein S15a (RPS15A), mRNA	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18	Homo sapiens HGC6.2 protein (HGC6.2), mRNA	Homo sapiens KIAA0553 protein gene, complete cds; and alphailb protein gene, partial cds	Homo sapiens KIAA0553 protein gene, complete cds, and alphalib protein gene, partial cds	Homo saplens KIAA0553 protein gene, complete cds; and alphalib protein gene, partial cds	Homo sapiens KIAA0553 protein gene, complete cds; and alphallb protein gene, partial cds	zw71g02,r1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:781682 5'	zm29g01.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:527088 61	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'	QV0-TT0010-031189-045-007 TT0010 Homo sapiens cDNA	Hamo sapiens KIAA0716 gene product (KIAA0716), mRNA	Homo sapiens KiAA0716 gene product (KiAA0716), mRNA
Top Hit Database Source			L HUMAN	NT IN			Į.		Į.	Z	LN	T HUMAN	Г	Г				EST_HUMAN		NT			NT		EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	NT
Top Hit Acession No.	4557732 NT	4557732 NT		3.0E-69 AF221712.1	5729910 NT	11418185 NT	277567.1	11426786	3.0E-69 AF085703.1		-		VA376399.1	3.0E-69 X13223.1		6233.1	11432120 NT	VA376399.1	11419167 NT	2.0E-69 AF160252.1	2.0E-69 AF160252.1	2.0E-69 AF160252.1	2.0E-69 AF160252.1	2.0E-69 AA431157.1			1.0E-69 BE409094.1	1.0E-69 BE902601.1	1.0E-69 BE902501.1	AW393969.1	7662283 NT	7662263 NT
Most Similar (Top) Hit BLAST E Vatue	4.0E-69	4.0E-69	3.0E-69 BE	3.0E-69	3.0E-69	3.0E-69	3.0E-69 AJ	3.0E-69	3.0E-69	3.0E-69 U52351.1	3.05-69	3.0E-69/	3.0E-69	3.0E-69		3.0E-69 X0	3.0E-69	3.0E-69 A	3.0E-69	2.0E-69	2.0E-69	2.0E-69	2.0E-69	2.0E-69	2.0E-69	1.0E-69	1.0E-69	1.0E-69	1.0E-69		1.0E-69	1.0E-69
Expression Signal	2.98	2.98	3.76	2.42	0.89	1.83	0.64	0.54	0.65	1.43	9.34	0.88	1.74	2.32		2.6	10.88	10.26	6.32	0.88	0.88	5.03	5.03	2.97	76.0	1.99	0.85	0.73	0.73	4.28	1.44	1.44
ORF SEQ ID NO:	32309	32310	25441	25601	-	36999		30414	33147	33209	33376	34261		34976			35865			25420			25421		34380	26710	L	31647		32276	32750	32751
Exan SEQ ID NO:	19526	19526	13017	13195	14779	18002	19901		L	L.	L		L	1_	1_	22140	22889	23062	24018	12995	12895	12995	12995	15356	21470	14228	17634	18914	18914		19921	19921
Probe SEQ ID NO:	6869	6869	401	631	2271	6492	7190	7257	7845	7902	8086	8910	9189	9830		9717	10437	10619	11728	133	133	421	421	2799	9038	1700	6129	9358	6356	0969	7210	7210

Table 4
Single Exon Probes Expressed in Lung

Townships		Homo sapiens mRNA for KIAA1147 protein, partial cds	Homo seplens mRNA for KIAA1147 protein, partial cds	601278532F1 NIH_MGC_39 Homo saplens cDNA clone IMAGE:3610614 5'	601278532F1 NIH_MGC_39 Homo saplens cDNA clone IMAGE;3610614 51	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project≔TCBA Homo sapiens	TOBAD4E9878 Deligible and Breite homeholderite lawkemie Breiter HOSC amount TOBA Home content	CONTRICTOR POLICIES OF SECULO 1971 PROPERTY OF SECULO	Homo sapiens mRNA for KIAA0707 protein, partial cds	Homo sapiens keratin 8 (KRT8) mRNA	601762902F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'	wf64e08.x1 Soares_NRL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2360390 3' similar to contains Alu	repeative element, contains element milk repeative element;	Honor contract Total ment of the month of the my district of the month	PRODUCTION OF THE PROPERTY OF	Imperoration No. Code Brass Homo sapiens conviction MAGE:2165305.3	Attand it NCI CGAP GCR1 Home seriens cDNA clans IMAGE:713239 6	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-1R) mRNA	Homo saplens edenylate cyclase 3 (ADCY3) mRNA	Homo saplens MIST mRNA, partial cds	Homo sapiens MIST mRNA, partial cds	Homo sapiens gene encoding splicing factor SF1, exons 2-8	Homo saplens titin immunoglobulin domain protein (myotilin) (TTID), mRNA	Homo saplens cerebral cavernous malformations 1 (CCM1), mRNA	Homo saplens mRNA for KIAA1284 protein, partial cds	Homo saplens mRNA for KIAA1294 protein, partial cds	Human displacement protein (CCAAT) mRNA	Human displacement protein (CCAAT) mRNA	Human PBX3 mRNA	Human PBX3 mRNA	Homo sepiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region	Homo saplens karyopherin beta 2b, transportin (TRN2), mRNA	Homo saplens karyopherin beta 2b, transportin (TRN2), mRNA
Top Hit	Source	NT	NT	EST_HUMAN	EST_HUMAN	HANNIE TOD	EST HOMAIN	EST_HUMAN	N	N	EST_HUMAN	1444	EU HOMAN	ESI HOMAN	TOTAL HOL	EST HUMAN	FST HIMAN	N L	Z	NT	N-	LN.	NT	IN	IN	N	NT	NT	IN	ZZ ZZ	NT	IN	NT
Top Hit Acession	Š.	AB032973.1		BE531007.1	BE531007.1	DE245070 4	DEZ450/0.1	BE245070.1	AB014607.1	4504918 NT	BF125887.1	, , , , , , , , , , , , , , , , , , ,	Aloussa4.1	77588 4	A1407007.4	AI497807.1	AA282955 1	5031668 NT	4757723 NT	AB032369.1	AB032369.1	AJ000052.1	11417306 NT	11419404 NT	AB037715.1	AB037715.1	M74099.1	M74099.1	X59841.1	X59841.1	AF153715.1	11525964 NT	11526964 NT
Most Similar (Top) Hit	BLAST E Value	1.0E-69	1.0E-69	1.0E-69	1.05-69	4 00 80	1.05-09	1.0E-69	1.0E-69	1.0E-69	1.0E-69	00 20 7	1.00-09	0.0E-70	200.0	7.0E-70	7 0F-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70
Expression	Signal	3.45	3.45	0.55	0.55	72.1	*	4.74	1.13	41.63	1.78	700	4 4	\$ 8	30.1	35.	1.18	4.01	5.34	5.27	5.27	1.84	1	0.47	3	3	4.61	4.61	4.62	4.62	1.37	2.45	2.45
	Ö D		32669	32601	32602	25500		35529	35590		36553		97767						29153	30761	30762	32549	ŀ	33719		34298	34491		34793				33855
Exan SEO ID	Ö	19841		19791	19791	19366	L	22561		23094	23975	PPCPC	┸		Ŀ		L	1		18325							21584		21876				20954
Probe	NO.	7229	7229	7286	7286	10180	3	10160	10222	10654	11658	12004	7007	430F	1780	1789	1881	1988	4242	5743	5743	7334	8324	8408	8953	8963	9152	9152	9444	9444	9844	9664	9664

Single Exon Flores Expressed in Eurig	Most Similar Top Hit Acession (Top) Hit Top Hit Acession (Top) Hit Top Hit Database Signal BLAST E No. Signal BLAST E Source		441 35604 0.91 7.0E-70 AB036429.1 NT Homo saplens NDST4 mRNA for N-deacetylase(N-sulfotransferase 4, complete cds	36281 2.12 7.0E-70 11429685 NT	89 36282 2.12 7.0E-70 11429685[NT Homo sapiens spastic paraplegia 4 (autoscmal dominant; spastin) (SPG4), mRNA	10 36766 2.11 7.0E-70 11526319 NT Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA	10 36767 2.11 7.0E-70 11526319 NT Homo saplens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA	30567 6.28		49 25597 3 6.0E-70 4502166 NT Homo sapiens emyloid beta (A4) precursor protein (protease nextn-II, Alzheimer disease) (APP), mRNA	27083 4.57 6.0E-70 M30938.1 NT	27474	27475 1.68 5.0E-70 7662307 NT	82 2.68 6.0E-70 BE189034.1 EST_HUMAN MR3-HT0487-160200-115-e08 HT0487 Homo saptens cDNA	87 32462 0.84 4.0E-70 T06037.1 EST_HUMAN EST03926 Fetal brain, Stratagene (cat#936209) Homo saplens cDNA clone HFBDN25	92 32716 0.7 4.0E-70 AW 193226.1 EST_HUMAN CM4-UM0003-010300-105-g08 UM0003 Hamo septens cDNA	32717 0.7	26604 1.17 3.0E-70 BE071796.1 EST_HUMAN	26606 1.17 3.0E-70 BE071796.1 EST_HUMAN	31143 0.65 3.0E-70 11430988 NT	31144 0.66	31620 1.19 3.0E-70 AI831975.1 EST_HUMAN	53 32005 2.01 3.0E-70 BF985233.1 EST_HUMAN 602141561F1 NIH_MGC_46 Homo sepiens cDNA clone IMAGE:4302806 5'	32006 2.01 3.0E-70 BF685233.1 EST_HUMAN	25052 0.66 2.0E-70 AF012872.1 NT	25688 15.45 2.0E-70 N42161.1 EST HUMAN SW:D3HI_RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR;	25689 15.45 2.0E-70 N42181.1 EST HUMAN	25712 3.32	26033 1.7 2.0E-70 8923689 NT	26200 2.14
																									ŀ					
	Exan SEQ ID NO:		22641		5 23289	3 23710	3 23710	1 24859	3 24558	13448			15338	3 23982	19687						18466	18807	19253	3 19253	12660	13271	13271			5 13755
	Proba SEQ ID NO:	10240	10240	10856	10856	11348	11346	12381	12578	894	2053	2463	2463	11669	7135	7179	717	1606	. 1606	5887	2882	6243	6706	90/9	40	709	709	725	1047	1215

Table 4 Single Exon Probes Expressed in Lung

Top Hit Descriptor	wb52c05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES: ;	wbszco6x1 NCI_CGAP_GC3 Homo septens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES.;	平21d11.r1 Stratagene neuroepithellum (#837231) Homo sapiens cDNA clone IMAGE:610101 5' sImilar to TR:G1143081 G1143061 STRAIN XA34 POL ;	zx60h08.r1 Soares_testis_NHT Homo sapians cDNA clone IMAGE:768075 51	zj91a06.s1 Soares_fetal_liver_splear_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462226 3'	Homo saplens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds	QV4-ST0234-181199-037-105 ST0234 Homo sapiens cDNA	Homo saplens cyclin-dependent kinase 6 (CDK6) mRNA	Homo sapiens keratin, hair, ecidic, 7 (KRTHA7), mRNA	Homo sapiens KIAA0623 gene product (KIAA0823), mRNA	Homo sapiens mRNA for KIAA1280 protein, partial cds	Homo sapiens mRNA for KIAA1280 protein, partial cds	Homo saplens protein kinase C, beta 1 (PRKCB1), mRNA	Human neurofibromatosis protein type 1 mRNA, 3' end of ods	Homo sapiens MAGUK protein p557; Protein Associated with Lins 2 (LOC51678), mRNA	Homo sapiens transcription factor WSTF mRNA, complete cds	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precureor (exon 2)	Homo saplens similar to transcription factor CA150 (H. saplens) (LOC63170), mRNA	Homo saplens similar to transcription factor CA150 (H. saplens) (LOC83170), mRNA	Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective	ussub-activating peptide III, neutrophili-activating peptide-Zi (rr pr.), III/N/A Homo sapiens RNA binding motif protein 9 (RBM9), mRNA	Homo saplens tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10) mRNA	Equus caballus giyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds	Homo sapiens plasminogen (PLG) mRNA	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds	Homo sapiens putative heme-binding protein (SOUL), mRNA	AU135734 PLACE1 Homo sapiens cDNA clone PLACE1002775 5'	n 45h10.s1 NC _CGAP_Pr4 Homo sepiens cDNA clone IMAGE:1043683 simitar to contains PTR5.t3 PTR5 repetitive element;
Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	NT	IN	NT	NT	TN	IN	IN	TN	NT	IN	NT	IN		z	F	NT.	NT.	N T	NT	Z	EST_HUMAN	EST_HUMAN
Top Hit Acessian No.	A 1654903.1	A1654903.1	AA171451.1	7.0E-71 AA442230.1	7.0E-71 AA705457.1	5.0E-71 AF056322.1	5.0E-71 AW816405.1	4502740 NT	11641408 NT	7662209 NT	5.0E-71 AB033106.1	5.0E-71 AB033106.1	11431590 NT	M38106.1	11526445 NT	5.0E-71 AF072810.1	X13467.1	11417012 NT	11417012 NT	******	11436514 N	4507592 NT	4.0E-71 AF157626.1	AF157626.1	4505880 NT	4.0E-71 AF056322.1	7867602 NT	AU135734.1	3.0E-71 AA667683.1
Most Similer (Top) Hit BLAST E Value	9.0E-71 A	9.0E-71 AI	8.0E-71 A	7.0E-71	7.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71 X1	6.0E-71	5.0E-71	72. 40. 4	5.0E-71	4.0E-71	4.0E-71	4.0E-71	4.0E-71			3.0E-71 A	
Expression Signal	2.31	3.6	2.74	8.71	1.37	7.93	1.55	1.59	1.31	1	0.48	0.48	1.01	1.69	0.88	28	2.13	1.78	1.78	0	28.5	3.38	25.58	25.58	1.56	7.34	7.78	1.22	2.52
ORF SEQ ID NO:	32796	32796		33152		27152	29052					30401	32883					l	35921		30180	25138				29363			35908
Exan SEQ ID NO:	19962	19962	21822	20289	21662	14629	16665	Ш			18060	18060				20701	22379	22940	22940		24176	L_	12954			16977	17594	21091	22830
Probe SEQ ID NO:	7459	11276	9390	7849	9120	2118	4136	6169	7028	7329	7391	7391	7586	8018	8251	8285	2268	10490	10490	00.07	11983	107	364	384	2840	4457	5084	8656	10480

Table 4
Single Exon Probes Expressed in Lung

				Most Similar		,	
SEQ ID	SEQ ID	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hil Database Source	Top Hit Descriptor
8763	3 21187	34088	2.2	1.0E-71	11425430 NT	TN	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8960	21393	34304	6.1		8922811 NT	TN.	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
8960	21393		5.1	1.0E-71	8922811 NT	LN L	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
10039	22441	35388	7.1	1.0E-71	AY007643.1	NT	Homo sapiens cytochrome c oxidase subunit VIIa-related protein gene, complete cds
10088			3.82	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5"
10398	3 22798	35773	1.28	1.0E-71	11433142 NT	LZ.	Homo sapiens activated leucocyte cell adhesion malecule (ALCAM), mRNA
10566	3 23013		2.68	1.0E-71	AV7612	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10865			3.79		11418903 NT	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
10926	3 23358		2.09	1.0E-71	11417191 NT	LN L	Homo sapians leucy//cystiny/ aminopeptidase (LNPEP), mRNA
10926		36369	2.09	1.0E-71	11417191 NT	N	Homo sapiens leucy//cystiny/ eminopeptidase (LNPEP), mRNA
12137	24270		9.64	1.0E-71	AB011399.1	ΙN	Homo saplans gane for AF-6, complete cds
424	12998	25423	0.92	9.0E-72	Al857635.1	EST HUMAN	wke5g03.x1 NCI_CGAP_Lu19 Homo septens cDNA done IMAGE:2423188 3' similar to TR:O88705 O88705 HYPOTHETICAL 38.6 KD PROTEIN ; contains Alu repetitive element:
	1					l	wk95g03.x1 NCL_CGAP_Lu19 Homo saplens cDNA done IMAGE:2423188 3' similar to TR:088705 088705
424			0.92	9.0E-72	~	EST_HUMAN	HYPOTHETICAL 38.6 KD PROTEIN ; contains Alu repetitive element;
11499		36931	6.71	9.0E-72	BF573955.1	EST_HUMAN	602131973F1 NIH_MGC_81 Homo saplens cDNA clane IMAGE:4271155 5'
11499			6.71	9.0E-72	BF573955.1	EST_HUMAN	602/31973F1 NIH_MGC_81 Hamo saplens cDNA clane IMAGE:4271166 51
6422			0.92	8.0E-72	BF035762.1	EST_HUMAN	601458747F1 NIH_MGC_66 Hano sapiens cDNA clane IMAGE:3862451 5
10893			3.63	8.0E-72	11424480 NT	FN	Homo sapiens nuclear RNA helicase, DECD variant of DEAD box family (DDXL), mRNA
10893			3.63	8.0E-72	11424480 NT	TN	Homo sapiens nuclear RNA helicase, DECD variant of DEAD box family (DDXL), mRNA
10893	3 23326	36326	3.63	8.0E-72	11424480 NT	TN	Homo saptens nuclear RNA helicase, DECD variant of DEAD box family (DDXL), mRNA
4129	16657	29041	1.83	7.0E-72	4501868 NT	TN	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitocondrial protein, mRNA
4129	16657	29042	8.	7.0E-72	4501868 NT	F	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitocondrial protein, mRNA
4129	16657	29043		7.0E-72	4501868 NT	E	Homo sanjans aronjtasa 2. mitochondda (ACO2). nuclear gana arooding mitoconddal modali. mRNA
7564	L		2.84	1	\$41694.1	NT.	(pseudogene) PTMAP2=prothymosin alpha (human, Genomic, 1192 nt, segment 2 of 3)
12271	24365		1.34		F26259.1	EST_HUMAN	HSPD13670 HM3 Homo sapiens oDNA clone 84000051G02
8920			4.41	6.0E-72	AL163246.2 .	IN	Homo sapiens chromosome 21 segment HS21C046
65			1.35	6.0E-72		EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo saplens cDNA
65	ľ		1.35		BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
99			3.57	5.0E-72	3	EST_HUMAN	QV0-CS0010-150800-388-e11 CS0010 Homo saplens cDNA
99	12685	25094	3,57	6.0E-72	BF333707.1	EST HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo saplens cDNA

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	Top Hit Descriptor	Homo saplens alpha-tubulin mRNA, complete cds	AU128584 NT2RP2 Homo saplens cDNA clone NT2RP2003751 5	au80c03.y/ Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR-000788, 000788, HYPOTHETICAL 32.4 KD PROTEIN contains alement MSR4 repositive element	MR4-BT0598-010600-005-005 BT0598 Hamo sapiens cDNA	MR4-BT0598-010600-005-d05 BT0598 Hamo sapiens cDNA	QV1-BT0632-280800-342-a10 BT0632 Homo saplens cDNA	Homo sepiens hypothetical protein dJ1057B20.2 (DJ1057B20.2), mRNA	Homo saplens zino finger protein ZFP-95 (ZFP95) mRNA, alternatively spliced, complete cds	yd93a01.11 Soares fetal liver spleen 1NFLS Home septens cDNA done IMAGE:115752 6' similer to SP:A44282 A44282 RETROVIRUS-RELATED POL POLYPROTEIN - HUMAN ;	Homo saplens hect domain and RLD 2 (HERC2), mRNA	ch97c02x1 Scares_fetal_liver_spleen_1NFLS_S1 Homo sepiens cDNA clone IMAGE:1849730 3' similar to	instantation of the ordinal factors, [1] somethis are repetited definition of the period of the peri	yu28a03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:235084 5'	Homo saplens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA	Homo saplens sukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA	yd29d09.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108649 3'	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA	ah63a06.s1 Soares_testis_NHT Homo sapiens cDNA clone 1310290 3'	Human chondroitin suifate proteoglycan versican V0 spilce-variant precursor peptide mRNA, complete cds	Human chondroitin sulfate proteoglycan versican V0 spilice-variant precursor pepilde mRNA, complete cds	Human gamma-aminobutyric acid transaminase mRNA, partial cds	Human gamma-aminobutyric acid transaminase mRNA, partial cds	Homo saplens 959 kb cantig between AML1 and CBR1 on chromosome 21q22, segment 3/3	Homo sapisns hypothetical protein FLJ20585 (FLJ20585), mRNA	TCR V delta 2-C alpha =T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction) human mediran Bacel line REH mRNA Perial 211 nd
	Top Hit Database Source	LN	EST_HUMAN	MANIH TOR	EST HUMAN	EST HUMAN	EST HUMAN	LN PA	NT	EST HUMAN	NT		EST HUMAN	EST HUMAN	NT	NT	EST_HUMAN	N	N.	EST_HUMAN	FN	ΙN	LN PA	FN	N	FN	L Z
	Top Hit Acession No.	L11645.1	J128584.1		6.0E-72 BF331671.1	3F331571.1	5.0E-72 BE926645.1	11034844 NT	4.0E-72 AF170025.1	187947.1	5729867		4.0E-72 AI248786.1	79421.1	7657057	7657057 NT	T81910.1	4.0E-72 AJ277646.2	5031976 NT	3.0E-72 AA723823.1	U16306.1	U16306.1	3.0E-72 U80226.1	U80226.1	3.0E-72 AJ229043.1	8923548 NT	
	Most Similar (Top) Hit BLAST E Value	5.0E-72	5.0E-72	R 0E.72	6.0E-72	6.0E-72	5.0E-72	4.0E-72	4.0E-72	4.0E-72	4.0E-72		4.0E-72	4.0E-72 H	4.0E-72	4.0E-72	4.0E-72	4.0E-72	3.0E-72	3.0E-72	3.0E-72 U	3.0E-72 ∪	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72 S77589.1
	Expression Signal	2.2	1.88	410	5.18	5.18	2.98	1.14	86.0	0.91	1.93		0.84	7.9	1.94	1.94	4.21	6.83	3.94	1.53	8.44	8.44	1.72	1.72	14.28	3.17	2.55
	ORF SEQ ID NO:		32832	87978					30736		33194		35683	36696	36803	36804	36833	30913			26166	26167	. 26208	26209	28003		28768
	Exon SEQ ID NO:	13709	19818	24628		23438	24916	17391	18305		20328		22716	23649	L	23748	23774	24314			13726	13726			16591		16369
	Probe SEQ ID NO:	1166	7361	9496	11011	11011	11817	4879	5723	6910	7889		10316	11284	11384	11384	11413	12195	20	926	1184	1184	1224	1224	3036	3241	3832

Top Hit Descriptor	Hamo saplens synaptic glycoprotein SC2 (SC2) mRNA, complete cds	MR0-CT0063-071099-002-h11 CT0063 Homo saplens cDNA	Homo saplens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA	Homo sapiens ribosomal protein L13a (RPL13A), mRNA	ws55c06.x1 NCI_CGAP_Brr25 Homo sapiens cDNA clone IMAGE:2501098 3' similar to TR:Q59050 Q59050 HYPOTHETICAL PROTEIN MJ1656.;	Γ	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA	Homo sapiens lysozyme homolog (LOC57151), mRNA	Homo sapiens vacudar ATPase isoform VA68 mRNA, complete cds	bb62g06.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 6' similar to gb:X04098_cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:MZ1495 Mouse cytoskeletal gamma-ectin mRNA, complete cds (MOUSE);	П	Homo sapiens interfeukin 12 receptor, beta 1 (IL12RB1), mRNA	Homo sapiens DEAD-box protein (HAGE), mRNA	Homo saplens DNA for Human P2XM, complete cds	Homo saplens thyrold autoantigen 70kD (Ku antigen) (G22P1), mRNA	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA	Homo saplans chromosome 21 segment HS21C006	Homo sapiens chromosome 21 segment HS21C082	Homo sapiens chromosome 21 segment HS21C018		Homo sapiens HELG protein (FAM4A1), mRNA	Homo sapiens heme-binding protein (HEBP), mRNA	Homo sapiens heme-binding protein (HEBP), mRNA	2n95e04.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:665950 3' similar to ob. 223064 cds.1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN):	Т	1	Г		Homo saplens chromosome 21 segment HS21C048
Top Hit Database Source	TN	EST_HUMAN	ΙN	N L	EST_HUMAN	NT	NT	IN	TN	EST_HUMAN	N L	N	N	ΙΝ	TN	F	N T	N	N L	EST_HUMAN	LN L	NT	LN LN	EST HIMAN	L	EST HUMAN	EST HUMAN	EST_HUMAN	Z
Top Hit Acessian No.	F222742.1	9.0E-73 AW374968.1	115258B3 NT	11424099 NT	AW071755.1	11435180 NT	TN 8675054	11426469 NT	AF113129.1	BE019900.1	11526037 NT	11526037 NT	11418786	.B002059.1	11418189	8923290 NT	AL163206.2	7.0E-73 AL163282.2	AL163218.2	BE166574.1	11422159 NT	11435913 NT	11435913 NT	101364			14	A1004040.1	AL163246.2
Most Similar (Top) Hit BLAST E Value	1.0E-72 A	9.0E-73	9.0E-73	9.0E-73	8.0E-73	8.0E-73	8.0E-73	8.0E-73	8.0E-73 A	8.0E-73	8.0E-73	8.0E-73	8.0E-73	8.0E-73		7.0E-73			6.0E-73	6.0E-73	4.0E-73	3.0E-73	3.0E-73			3.0E-73	3.0E-73		3.0E-73
Expression Signal	7	1.26	0.91	143.76	0.93	0.59	0.78	-5.45	2	9.85	1.57	1.57	2.19	1.18	3.69	1.17	0.74	1.84	2.66	4.08	2.28				241				1.58
ORF SEQ ID NO:		26484			26048	28223		32242	34039	34936	L	L		30951	30901	26144				32917	30338					36211	ŀ		
Exan SEQ ID NO:	22162		L	23167	1		l_	1	21135	22008		_	L		24356	13704	15815	1	12767	L	18095	14356	14356		L	1_			1
Probe SEQ ID NO:	9769	1488	6344	10729	1083	3256	5845	6925	8700	9585	9860	9860	11327	12020	12258	1161	3264	5026	162	7616	5504	1834	1834	7068	10478	10790	10790	11357	12515

Probe SEQ ID NO: 12520 874 1897 2192 3138 3535 3535 4463 6777 6777 6777 6777 1071 8385 10372 10372 10837 10837 1764 2385 6692		R _O	Expression Signal Signal 1.84 2.09 2.88 2.88 0.651 0.61 0.61 0.61 1.31 1.31 1.67 1.67 1.67 1.67 1.67 1.67 1.67 1.6	A S S S S S S S S S S S S S S S S S S	Op Hit Acession No. No. No. No. No. No. No. No. No. No.	Source Source Source THUMAN THUMAN THUMAN THUMAN	Top Hit Detabase Source
11200	L				BE385477.1	EST_HUMAN	601276071F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3617105 5'
11462					X77225.1	NT	H.seplens mRNA for TFIIA
11462	23820	36833	1.79	9.0E-74	X77225.1	L	H.saplens mRNA for TFIIA
767					-	LN	Homo saplens CD39-like 4 (CD39L4) mRNA
	1						

						3.6	Bind III pessed III training and a rest of the second III training and a second III training and
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Dafabase Source	Top Hit Descriptor
6203			2	8.0E-74	S83194.1	Ę	Ca2+/calmodulin-dependent protein kinase IV kinase Isoform frats. brain. mRNA. 3429 ntl
6208			2	8.0E-74	S83194.1	N I	Ca2+/calmodulin-dependent protein kinase IV kinase Isoform frats, brain, mRNA, 3429 ntl
190			4.2	7.0E-74	AJ001689.1	ΕN	Hamo saplens NKG2D gene, exon 10
3298			1.44	7.0E-74	AL163246.2	F	Homo saplens chromosome 21 segment HS210046
9208			2.4	7.0E-74	BE967432.1	EST_HUMAN	601649284F1 NIH_MGC 73 Homo saplens cDNA clone IMAGE:3932897 5'
12257	24355	30800	4.05	7.0E-74	BE266305.1		601191927F1 NIH_MGC_7 Hamo sapiens cDNA clane IMAGE:3535855 67
1149	13693	26134	3.91	6.0E-74	AF109907.1	Ę	Homo sapiens S164 gene, partial ods; PS1 and hypothetical protein genes, complete ods; and S171 gene, partial ods
2210	14720	27241	32.73	6.0E-74	BE388260.1	EST HUMAN	801283521F1 NIH MGC 44 Home saniens cDNA clone IMAGE:ਤਰਨਮੁਕਤ ਨਾ
2210	14720	27242	32.73	6.0E-74	BE388260.1	EST HUMAN	801283521F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE:3605433 5
3710		28654	1.61	6.0E-74	BE048846.1	T	hr64e11.x1 NCI CGAP Kid11 Homo saplens cDNA clone IMAGE:31323323
3710			1.61	6.0E-74	BE048846.1	Г	hr54e11.x1 NCI CGAP Kid11 Horns sapiens cDNA clane IMAGE:3132332 3
5621			4.67	6.0E-74	11056013		Homo saplens actin filament associated protein (AFAP), mRNA
928		25928	2.53	5.0E-74	AW020986.1	EST HUMAN	df17c09.y1 Morton Fetal Cochlea Homo saplens cDNA clone IMAGE:2483704 5:
2651			10.45	5.0E-74	AW362756.1	HUMAN	PM0-CT0289-271099-001-h07 CT0289 Homo sapiens cDNA
5663			2.18	5.0E-74	11425417	LY.	Homo sepiens phosphatidylinositol glycan, class L (PIGL), mRNA
6073	18646	31340	15.63	6.0E-74	X89670.1	ᅜ	H. sapiens mRNA for TPCR16 protein
84.78		70070	,	1			Homo saplens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA,
6204	18787	31470	7.4.7	5.0E-74		±N.	and translated products
200	1	314/0	\$ 2	5.0E-/4		L	Homo saplens Interleukin 4 receptor (IL4R), mRNA
7204	П		7 C	5.0E-74		L	Homo saplens interleukin 4 receptor (IL4R), mRNA
9000	Т	İ	2,43	6.0E-/4		L.	Homo saptens KIAA0716 gene product (KIAA0716), mRNA
0200	⊥	32017	0.67	6.0E-74			Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
	1	SSSC	1.0/	0.UE-/4	11345483		Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
RICOL	1	35948	5.36	6.0E-74			H.saplens mRNA for HIP-I
10519	22867	35947	5.36	5.0E-74	5.0E-74 Y09420.1	NT	H.saplens mRNA for HIP-1
10629		36057	2.37	6.0E-74	5729766 NT		Homo saplens cell adhesion materale with homotony to 1 4CAM (vince homoton) or 41 (Volum)
293	12889	25310	2.32	4.0E-74	D87675.1		Homo sapiens DNA for amyord precurent profein complete ode
876	13430	25878	7.28	4.0E-74	4.0E-74 AB028942.1		Homo sapiens mRNA for KIAA1019 protein, pertial cds
1911	14430	. 26927	1.52	4.0E-74			Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete ods)
1911	14430	26928	1.52	4 0F-74	-		Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,
	l						(sm spaid)

Table 4
Single Exon Probes Expressed in Lung

Single Exoll Plopes Expressed in Lung	EQ Expression (Top) Hit Acession (Top) Hit Descriptor Signal BLAST E No. Saurce Surce	246 1.62 6.0E-76 Al817415.1 EST_HUMAN RETROVIRUS-RELATED POL YPROTEIN (HUMAN);	856 1.87 6.0E-75 BE791831.1 EST_HUMAN 601686109F1 NIH_MGC_7 Homo sapiens cDNA done IMAGE:3940130 5	0.5 6.0E-75 BF211517.1 EST_HUMAN	. 0.41 6.0E-76 AA573446.1 [EST_HUMAN	0.41 6.0E-75 AA573446.1 EST_HUMAN	1.14 5.0E-75 BE272325.1 EST_HUMAN	1.19 6.0E-76 BF690264.1 EST_HUMAN	#310 6.0E-75 Al638623.1 EST_HUMAN HYPOTHETICAL 20.1 KD PROTEIN ;	3.09 6.0E-76 BE796823.1 EST_HUMAN	1.75 4.0E-75 BE081333.1 EST_HUMAN	EST_HUMAN	0.91 4.0E-76 AW897230.1 EST_HUMAN	5.68 4.0E-75 BE409464.1 EST_HUMAN	0.68 4.0E-75 11417946 NT		6.25 4.0E-75 5579467 NT	467 1.66 4.0E-76 11417946 NT Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA	1.66 4.0E-75 11417948 NT	906 22.48 4.0E-76 7669506 NT Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA	3.85 3.0E-75 AF167623.1	2.77 3.0E-75 AF167623.1 NT	1.43 3.0E-75 AB011153.1 NT	4.73 3.0E-75 4759153 NT	0.96 3.0E-76 AL163201.2 NT	1.06 3.0E-75 AB011163.1 NT	291 0.98 3.0E-75 M72383.1 NT Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete ods	0.63 3.0E-76 M72383.1 NT	1.95 3.0E-75 D87675.1 NT	1.21 3.0E-76 11420956 NT	1.21 3.0E-76 11420956 NT Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA	4741 A ON O ON A PERSONAL INT. Int.
			L																												L	
	Exan ORF SEQ SEQ ID ID NO: NO:	14726 27246	23611 36656	19567 32354	20777 33676	20777 33677	21717 34626	22081 35008	22602 35566	23873 36953	12728 25141	13050	14280 26764	15361 27778		18372 31030	19144 31892	19671 32467		22926 35906							15870 28291		16711 29102		18092 30334	
	Probe ES SEQ ID SE(2215 1	11245 2	Ц				9601 2	10201 2		116 1	476 1	1753 1	Ш	1679	5791 1	6593 1	7140 1		10478 2		Ц		_			3323					

					•	201 - 10V- 016	
Probe SEQ ID NO:	Econ SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6858	19398	32176	0.68	3.0E-75	3.0E-75 AF123074.1	TN	Homo saplens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
7152	19865	32685	1.66	3.0E-75	11528319 NT	Ä	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7152	19865	32686	1.68	3.0E-75	11528319 NT	Ę	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevislae) homolog A (HIRA), mRNA
7575	2002		4.69	3.0E-75	7662209 NT	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7575		32869	4.69	3.0E-75	7662209 NT	NT	Homo sepiens KIAA0623 gene product (KIAA0623), mRNA
8153					4885632 NT	TN	Homo sapiens Oncogene TIM (TIM) mRNA
8153	20576		3.18		4885632 NT	NT	Homo sapiens Oncogene TIM (TIM) mRNA
9330	<u> </u>	34669			11420804 NT	۲	Homo sapiens snail 1 (drosophlla homolog), zinc finger protein (SNA11), mRNA
5942	1 _				AV734680.1	EST_HUMAN	AV734680 cdA Hamo saplens cDNA clone cdABED02 5
9176	I _	34517			Al311783.1	EST HUMAN	qo91e02.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clane IMAGE:1915898 3' similar to TR:Q69386 Q69386 POL/ENV GENE ;
1000	l					ECT UIMAN	xg60d02.x1 NC_CGAP_U4 Homo sapiens cDNA clone IMAGE:2632707 3' sImilar to contains PTR7.t1
2000	1		5	1	VE2224 4	TN C	Historians FRCC gene exons 1 & 2 (bartial)
4741	1				RF 279301 1	FST HIMAN	601157633F1 NIH MGC 21 Homo saplens cDNA clone IMAGE:3504272 5
8109	1	1		L	BE082528.1	EST HUMAN	RC5-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA
8109	1			L	BE082528.1	EST HUMAN	RC5-BT0840-020300-031-H03 BT0640 Homo sapiens cDNA
8941	L				1 0E-75 AA389270 1	EST HUMAN	ZISTN03.s1 Socres, tests. NHT Homo sapiens cDNA clone IMAGE:728485 3' similar to gb:M13932 40S RIBOSOMAL PROTEIN S17 (HUMAN);
9638	1	34983			1.0E-75 BF313645.1	EST HUMAN	601900294F1 NIH_MGC_19 Homo sapiens cDNA clane IMAGE:4129878 5
9638	l	<u> </u>		١.	1.0E-76 BF313645.1	EST HUMAN	601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 5'
10688					AA664377.1	EST_HUMAN	ac77b08.s1 Stratagene lung (#937210) Homo saptens cDNA clone IMAGE:968599 3'
40878	23308	AGGG			A F 2 2 2 3 0 4	FZ	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-48, and partial cds, alternatively soliced
11888	1		2.22	1.0E-75		EST HUMAN	801437130F1 NIH MGC_72 Homo seplens cDNA clone IMAGE:3922303 5'
46	1					EST HUMAN	wb30b10.x1 NCI_CGAP_GC8 Home captens cDNA clone IMAGE:2307163 3' similar to TR:O76235 O75235 TRAP1
46	1	·				EST HUMAN	wb30b10.x1 NCI_CGAP_GC8 Homo sepiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1;
2315	14822		3.99	9.0E-76	AA702415.1	EST_HUMAN	285507.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:447541 3'
9970	22372	35320	2	9.0E-76	M12937.1	NT	Human ferritin Heavy subunit mRNA, complete cds
862		1	1.51	╛	4504374 NT	INT	Homo sapiens H factor 1 (complement) (HF1) mRNA

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Express Signe	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
982		25959	1.51	8.0E-76	4504374 NT	F	Homo sapiens H factor 1 (complement) (HF1) mRNA
2446		27464	4.64	8.0E-76	AF229180.1	NT	Homo sepiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
2864			1.38		7706724 NT	¥	Homo seplens mediator (Sur2), mRNA
6485			6.73	97-30.8	11421442 NT	Ę	Homo sepiens LIM domain kinase 1 (LIMK1), mRNA
7992	20426	33292	1.73	8.0E-76	11435215 NT	N P	Homo saplens serine/threonine kinase 2 (STK2), mRNA
8082			26.0	8.0E-76	11419212 NT	LN LN	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
10291			1.27	8.0E-76	M13792.1	₽ E	Human adenosine deaminase (ADA) gene, complete cds
10459	22910	35890	4.97	8.0E-76	10442821 NT	N F	Homo saplens baculoviral IAP repeat-containing 6 (BIROS), mRNA
12236	24343		1.65	8.0E-76	11417862 NT	¥	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA
12341	24821	30589	1.63	8.0E-76	AL365515.1	Ę	Novel human gane mapping to chomosome 22
798	13356	26792	1,1	7.05-76	F046092	. 5	Homo sapiens dihydrolipoamide dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo- dittarate complex, branched chain keta acid, dehydrogenese complex, 771 D. m.DNA
3257	L			L	AF056490 1	Ę	Homo sapiens cAMP-specific phosphorilesterses 8A (PDE8A) mRNA partiel As
3263	L		8.24		4506052	Ę	Homo sapiens lymphocyte antiqen 75 (LY75) mRNA, and translated products
3308	15856	28276	2.74		4767916 NT	5	Homo septens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
4393						F	Homo saplens septepterin reductase (7,8-dihydroblopterin:NADP+ oxidoreductase) (SPR) mRNA
4393	16915	29300	3.77		4507184 NT	Ŗ	Homo saplens septeptin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
1267	13803		21.63	6.0E-76	BE396253.1	EST HUMAN	601312019F1 NIH MGC 44 Homo saplens cDNA clone IMAGE:3658767 6
11217			2.2		BE273201.1	EST HUMAN	601142253F1 NIH MGC 14 Homo saplens cDNA clone IMAGE:3506029 6
1894			8.99		D63874.1	¥	Human mRNA for HMG-1, complete cds
1894			8.89		D63874.1	Į.	Human mRNA for HMG-1, complete cds
1894	i	1			J63874.1	LN.	Human mRNA for HMG-1, complete cds
3165	_			4.0E-76	3E814096.1	EST_HUMAN	QV3-BN0047-270700-283-g06 BN0047 Homo sepiens cDNA
6521					3E783412.1	EST_HUMAN	601471725F1 NIH_MGC_67 Hamo sapiens cDNA clane IMAGE:3874470 5
10053	_1				D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (TFujiwara) Homo saplens cDNA clone GEN-178G01 5'
10053					381625.1	EST_HUMAN	HUM178G01B Human fetal brain (TFujiwara) Homo saplens cDNA clone GEN-178G01 5'
8		.			3F516262.1	EST_HUMAN	UI-H-BW1-anz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862.3
648				3.0E-76	BF516262.1	EST_HUMAN	UI-H-BW1-anz-b-04-0-UI.s1 NCI_CGAP_Sub7 Hamo sapiens cDNA clone IMAGE:30838623
1616					4503476 NT	F	Homo saplens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1616						NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3406			5.17		3F375689.1	EST HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
3408	15951	28364	5.17	3.0E-78	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo saplens cDNA

Table 4
Single Exon Probes Expressed in Lung

Top Hit Acession Top Hit Descriptor Top Hit Descriptor Source	HIG7112.X1 NCI_CGAP_Lu24 Homo sapiens cDNA done IMAGE:3161823 3' similer to TR:094886 094886 BE348693.1 EST_HUMAN KIAA0792 PROTEIN ;	11314.1 EST_HUMAN HSCZQD042 normalized Infant brain cDNA Homo septens cDNA clone c-zqd04 3'	AA180811.1 EST_HUMAN gb:L32976 MIXED LINEAGE KINASE 1 (HUMAN);	AW027705.1 EST_HUMAN wv75c05.x1 Soares_thymus_NHFTh Homo sapiens cDNA clone IMAGE:2535368 3'	AF286598.1 NT Homo sapiens angiostatin binding protein 1 mRNA, complete cds	42671.1 EST_HUMAN yy20g10.r1 Soares melanocyte 2NbHM Homo sepiens cDNA done IMAGE:271842 6	AW299353.1 EST_HUMAN xs49h01.x1 NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE:2773009 3'	AA442309.1 EST_HUMAN zv54d11.r1 Soares_testis_NHT Homo sepiens cDNA clone IMAGE:767461 6'	EST_HUMAN	AW 987884.1 EST_HUMAN EST380059 MAGE resequences, MAGJ Homo sapiens cDNA	AW956455.1 EST_HUMAN EST368525 MAGE resequences, MAGD Homo sapiens cDNA	84295.1 NT Human mRNA for possible protein TPRDII, complete cds	34295.1 NT Human mRNA for possible protein TPRDII, complete cds	NT Human mRNA for possible protein TPRDII, complete cds	4557682 NT Homo saplens Immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA	4503944 NT Homo sapiens glucagon (GCG) mRNA	4758053 NT Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA	4504028 NT Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA	4604028 NT Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA	29266 SWISSPROT OLFACTORY RECEPTOR-LIKE PROTEIN F6	AA445992.1 EST_HUMAN P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR.;	AA446992.1 SST HUMAN P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR.:	N	11545921 NT Homo saptens melanoma differentiation associated protein-5 (MDAS), mRNA	AL 163283.2 NT Homo saplens chromosome 21 segment HS21C083	AW879618.1 EST_HUMAN QV3-OT0028-220300-132-b11 OT0028 Homo sepiens cDNA	AF127845.1 NT Gorilla garilla offactory receptor (GGO18) gene, partial cds	9966846 NT Homo sapiens chromosome 12 open reading frame 4 (C120RF4), mRNA		11421326 NT Homo saplens KIAA0783 gene product (KIAA0783), mRNA
		6 Z41314.1				6 N42671.1			6 AA4423	8 AW9878	6 AW956	6 D84295.1	6 D84295.1	6 D84295.1	9	9	8	9	9	6 P23266				8	6 AL 1632	6 AW879		9		9
Most Similar (Top) Hit BLAST E Value	3.0E-76	3.0E-76	3.05-78	3.0E-76	3.0E-76	3.0E-76	3.0E-76	3.0E-76	3.0E-76	3.0E-78	3.0E-78	2.0E-76	2.0E-76	2.0E-78	2.0E-76	2.0E-76	2.0E-76	2.0E-76	2.0E-76	2.0E-76	2.0E-78	2.0E-78	2.0E-76	2.0E-76	2.0E-76	2.0E-76	2.0E-76	2.0E-76		2.0E-76
Expression Signal	4.83	2.47	0.88	0.65	10.1	1.18	3.99	0.83	0.83	1.92		1.22	2.81	2.81	0.83	1.18	1.04	1.92	1.92	2.93	2.39	239		96.0	-	7.23	1.64		5.23	
ORF SEQ ID NO:	29015	36998	31268	31573	31999	34075	36184	35202	35203	30675	30450	25312	25359	25360		25579	26044	28552	26553	27774	28228	28229	26312		29471	29913		30730		33189
Exan SEQ ID NO:	16825	17899	18582	18852	19248	21170	22249	22264	22264	24729	24861	12891	12946	12946	13052	13175	13602	14090	14090	15354	15811	15811	12891	17050	17084	17541	18151	18300		20332
Probe SEQ ID NO:	4094	5487	8009	6290	6701	8736	9846	9861	9861	11563	11673	285	356	328	478	607	1056	1558	1558	2797	3260	3260	4153	4532	4567	5031	2262	5718	9889	7893

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Single Exon Probes Expressed in Lung	Top Hit Descriptor	H.saplens mRNA for ubliquitin hydrolase	Hamo sapiens 3-hydroxyisobutyny-Coenzyme A hydrolase (HIBCH), mRNA	Homo sapiens 3-hydroxyisobutynyl-Coenzyme A hydrolase (HIBCH), mRNA	Homo sapiens sorting nextn 5 (SNX5), mRNA	Homo sapiens sorting nextn 6 (SNX5), mRNA	Human mRNA for KIAA0289 gene, partial cds	Human mRNA for KIAA0299 gene, partial cds	Homo sapiens KIAA0294 gans product (KIAA0294), mRNA	Homo saplens SET domain and mariner transposase fusion gene (SETMAR) mRNA	Homo saplens SET domain and mariner transposase fusion gene (SETMAR) mRNA	PM3-MT0078-080800-006-g03 MT0078 Homo sapiens cDNA	AV764617 MDS Homo sapiens cDNA clone MDSBTF10 5'	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA	Homo saplens CYP17 gene, 5' end	Homo saplens CGI-79 protein (LOC51634), mRNA	Homo saplens mRNA for KIAA1415 protein, partial cds	Homo saplens mRNA for KIAA1415 protein, partial cds	hod3b05x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA olone IMAGE:3040113 3' similar to SW:GAG2_HUMAN P10264 RETROVIRUS-RELATED GAG POLYPROTEIN;	w.22g02.xt NCI_CGAP_Bm62 Homo expiens cDNA clone IMAGE:2260466 3' similar to TR:065245 O65245 F21E10.7 PROTEIN :	w22g02.x1 NCI_CGAP_Bm52 Homo sepiens cDNA clone IMAGE:2280466 3' similar to TR:065245	O65245 F21E10.7 PROTEIN.;	Homo sapiens glutamio-oxaloacetio transaminase 2, mitochondrial (aspartate aminotransfarase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA	ns68g12.e1 NCL_CGAP_Pr2 Hamo sepiens cDNA clone IMAGE:1188838 similer to SW:RL29_HUMAN	P47914 60S RIBOSOMAL PROTEIN L29. [1] ; contains element MSR1 repetitive element;	601119852F1 NIH_MGC_17 Hamo sapiens cDNA clone IMAGE:3029438 6'	601476802F1 NIH_MGC_68 Hamo sapiens cDNA clone IMAGE:3879505 6	at74a09.x1 Berstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR:Q13311 Q13311 TAX1-BINDING PROTEIN TXBP151. [1];	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
lle Exon Pro	Top Hit Database Source	NT	TN	LN T	NT	TN	LN	NT	NT	TN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	Ę	الا الا	۲	NT	EST_HUMAN	EST HUMAN		EST_HUMAN	LΝ		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	Į.	NT
âus	Top Hit Acession No.	X98296.1	11428849 NT	11428849 NT	11421928 NT	11421928 NT	AB002297.1	AB002297.1	7682041 NT	5730038 NT	5730038 NT	BF359917.1	AV764617.1	AW997712.1	L41825.1	7706315 NT	AB037836.1	AB037836.1	BE044316.1	A1613519.1		Al613519.1	4504068 NT		AA653025.1	BE298940.1	BE787143.1	AI833003.1	U50321.1	U50321.1
	Most Similar (Top) Hit BLAST E Value		5.0E-77	6.0E-77	5.0E-77	5.0E-77	6.0E-77	5.0E-77	5.0E-77	3.0E-77	3.0E-77	3.0E-77	2.0E-77	2.0E-77	2.0E-77	2.05-77	2.0E-77	2.0E-77	2.0E-77	2.05-77		2.0E-77	2.0E-77	i	2.0E-77	2.0E-77	2.0E-77	2.0E-77		
	Expression Signal	0.73	2.4	2.4	2.84	2.84	1.05	1.05	1.67	1.18	1.18	5.72	1.5	3.03	1.55	1.88	4.01	4.01	1.74	0.71		0.71	1.2		6.14	2.17	1.92	17.18	6.28	6.28
	ORF SEQ ID NO:	33083	34254	34255	35040	35041	35736	35737	3696	26937	26938	36078		26480	27045	27053	27529	27530	28967	29347		28348			29711	31532	31781	32919		
	Exan SEQ ID NO:	20233	21340	21340	22113	22113	22769	22769	23887	14436	14436	23097	13918	13995	14531		15339	15339	16578	16960	l	16960	17152		17332	18817	19041	20067	1	1
	Probe SEQ ID NO:	8115	9068	8908	9745	9745	10369	10369	11529	1917	1917	10857	1383	1462	2015	2024	2516	2516	4048	4440		4440	4636		4820	6253	6486	7818	9713	9713

Table 4
Single Exon Probes Expressed in Lung

. Top Hit Descriptor	601119852F1 NIH_MGC_17 Homo sapiens cDNA clane IMAGE:3029436 5	Homo sapiens mRNA for KIAA1276 protein, partial cds	Homo sapiens mRNA for KIAA1276 protein, partial cds	Homo sepiens amyloid beta (A4) precursor protein (protease nextn-ll, Alzheimer disease) (APP), mRNA	Homo sepiens amyloid beta (A4) precursor protein (protease nexin-li, Alzheimer disease) (APP), mRNA	Homo sapiens amyloid beta (A4) precursor protein (protease nextr-II, Alzhelmer disease) (APP), mRNA	Homo sapiens amyloid beta (A4) precursor protein (protease nextr-II, Alzhelmer disease) (APP), mRNA	Homo sapiens mRNA for KIAA1101 protein, complete cds	Homo sepiens 2,4-dienoy/ CoA reductase 1, mitochandrial (DECR1), mRNA	Homo saplens CGI-80 protein (LOC51626), mRNA	Homo sapiens 959 kb contig between AML1 and CER1 on chromosome 21q22; segment 1/3	Homo sapiens breast cancer 1, early onset (BKCA1), transcript variant BKCA1-exon4, mKNA	TIONED SEPTEMBLY MANAGED SETTEMBLY (N.A.A.O.O.S.), INDIVIDED SEPTEMBLY (N.A.A.O.O.S.), INDIVIDED SEPTEMBLY (N.A.A.O.O.S.), INDIVIDED SEPTEMBLY (N.A.A.O.O.S.), INDIVIDED SEPTEMBLY (N.A.A.O.O.S.)	Homo septens dynactin 1 (DCTN1) gene, exons 27 and 28	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28	Human von Willebrand factor gene, exon 20	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA	Homo sapiens elastin (supravalvular acrtic stenosis, Williams-Beuren syndrome) (ELN), mRNA	Homo sapiens cullin 1 (CUL1), mRNA	Human mRNA for kidney epidermal growth factor (EGF) precursor	Homo sapians hu-GlcAT-P mRNA for glucuronyltransfarase, complete ods	Homo sapiens hu-GicAT-P mRNA for glucuronyltransferase, complete cds	Homo sapiens meningioma expressed antigen 8 (colled-coil proline-rich) (MGEA8), mRNA	RC3-CT0254-280999-011-b05 CT0254 Hamo sapiens cDNA	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA	E10023-080500-012-e05 E10023 Homo sapiens cDNA	AU118789 HEMBA1 Homo seplens aDNA clane HEMBA1004354 5	CAMPA INTERNAL TORS - THE CHARLES OF STREET
.Top.	9852F1 NIH_MGC_17 Homo saplens cDNA	sapiens mRNA for KIAA1276 protein, partia	sapiens mRNA for KIAA1276 protein, partia	sapiens amyloid beta (A4) precursor protein	sapiens anyloid beta (A4) precursor protein	sapiens amyloid beta (A4) precursor protein	sapiens amyloid beta (A4) precursor protein	sapiens mRNA for KIAA1101 protein, comp	sapiens 2,4-dienoyl CoA reductase 1, mitoc	saplens CGI-80 protein (LOC51626), mRN,	sapiens 959 kb contig between AML1 and C	sapiens breast cancer 1, early onset (BRCA	sapiens NIAA0005 gene product (NIAA000)	sapiens dynactin 1 (DCTN1) gene, exons 2	saplens dynactin 1 (DCTN1) gene, exons 2	n von Willebrand factor gene, exon 20	sapiens diaphanous (Drosophila, homolog)	sapiens elastin (supravalvular aortic stenosi	sapiens cullin 1 (CUL1), mRNA	n mRNA for kidney epidermal growth factor	sapiens hu-GicAT-P mRNA for glucuronylu	saplens hu-GlcAT-P mRNA for glucuronylit	sapiens meningloma expressed antigen 6 (c	710254-280999-011-b05 CT0254 Hamo sa	Т0023-080500-012-е05 ЕТ0023 Нопо sap	.10023-080500-012-e05 E10023 Homo sa	3789 HEMBA1 Homo saplens cDNA clone	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5
Top Hit Database Source	T_HUMAN		NT Homo					NT Homo								NT Humar					NT Homo	NT Homo			HUMAN		П	EST HUMAN AU118
Top Hit Acession No.		AB033102.1	AB033102.1	4502188 NT	4502168 NT	4502166 NT	4502166 NT	AB029024.1	4503300 NT	T706299 NT	AJ228041.1	6552322 NT	7661849 N	AF086944 1		M25844.1	4885182 NT	5881412 NT	11420159 NT			AB029396.1					AU118789.1	AU118789.1
Most Similar (Top) Hit BLAST E Value	2.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0 <u>E</u> -77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	ŀ	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77		1.0E-77	1.0E-77			8.0E-78			6.0E-78
Expression Signal	2.23	1.19	1.19	3.34	3.34	4.58	4.58	0.88	2.45	3.76	19.11	2	1.10	1.13	1.58	1.59	0.78	14.17	1.03	6.0	1.03	1.03	3.43	2.98	2.67	2.67	1.56	1.56
ORF SEQ ID NO:	31532	25057	26058	25301	26302	25902	25803	27367	27972	59279	ŀ		30062			31644	32103	32484			35759	35760						25120
Exam SEQ ID NO:	18817	12885	12665	12883	12883	15296	15296	14849	15560			_]	17698	1_	1_	Ш	18333	19688			L	22789			l	_	- 1	12705
Proba SEQ ID NO:	11533	45	45	286	286	868	898	2343	3005	4375	4560	4696	5195	328	1 22	6353	6790	7484	8200	8319	10389	10389	10859	10404	6788	6788	8	88

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
5187		30052	5.76	6.0E-78	BF380870.1	EST_HUMAN	L2-UT0074-170900-163-F08 UT0074 Homo sepiens cDNA
6913			3.04	6.0E-78	11432710 NT	Ę	Homo sapiens GDNF family receptor alpha 1 (GFRA1), mRNA
225	12827	25241	1.11	5.0E-78	11422486 NT	N	Homo sapiens hypothetical protein FLJ11318 (FLJ11316), mRNA
2475	14976	27490	3.42	5.0E-78	AW673424.1	EST HUMAN	ba54h03.y3 NIH_MGC_10 Homo saplens cDNA clone IMAGE:2900405 5' similar to WP:Y48B6A.9 CE22121:
3363		28331		6.0E-78	M55586.1	L	Human collagenase type IV (CLC4) gene, exon 6
5668		30653	2.93	5.0E-78	AF038536.1	NT.	Homo sapiens Best's macular dystrophy related protein mRNA, partial cds
5840	18420	31088	14.64	5.0E-78	11416585 NT	LN LN	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFBI), mRNA
7595		32894	2.45	5.0E-78	AW953120.1	EST_HUMAN	EST365190 MAGE resequences, MAGB Homo saplens cDNA
9395		34742		6.0E-78	U60889.1	N	Human Iysosomal alpha-mannosidase (manB) gene, exon 7
9336		34743	3.49	5.0E-78	BE960836.1	EST_HUMAN	601648081F1 NIH_MGC_62 Hamo sapiens cDNA cione IMAGE:3931887 5'
1164	13707		1.3	4.0E-78	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
1544			1.63	4.0E-78	AL355841.1	Ę	Novel human gene mapping to chomosome 22
2212			5.12	4.0E-78	AF107405.1	N	Homo saplens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4344			1.72	4.0E-78	LN 9289892	Į	Homo saplens syncytin (LOC30816), mRNA
4828			1.17	4.0E-78	4505806 NT	NT	Homo sapiens phosphattdylinositol 4-kinase, catalytic, alpha polypeptide (PiK4CA) mRNA
4828	_1		1.17	4.0E-78	4505806 NT	FA.	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
90 8 8		31309	1.15	4.0E-78	11420732 NT	M	Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA
8			0.62	4.0E-78	7662109 NT	LN TN	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
6487			0.62	4.0E-78	7662109 NT	E	Homo sapiens KIAA0426 gene product (KIAA0428), mRNA
938	_1			4.0E-78		Į,	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
7994				4.0E-78	4506736 NT	ᅜ	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
9228	1		1.35	4.0E-78	AF012872.1	TN	Homo saplens phosphalidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
9256	ı	34600	1.35	4.0E-78	AF012872.1	N	Homo sapiens phosphatidylinosital 4-kinase 230 (pi4K230) mRNA, complete ods
10335	22735	35702	2.04	4.0E-78	11560151 NT	F	Homo eapiens hypothatical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10335	22735	35703	2.04	4.0E-78	11560151 NT	LN	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10544			2.54	4.0E-78	11426610 NT	N.	Homo saplens regulatory factor X-associated ankyrin-containing protein (RFXANK), mRNA
11172			2.27	4.0E-78	AF169148.1	본	Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds
11309	23673	36723	14.29	4.0E-78	X05844.1	N _T	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
11530	1	36970	2.78	4.0E-78	10880123 NT	Ŋ	Homo saplens pleckstrin homology, Sec7 and colled/coil domains 2 (cytohesin-2) (PSCD2), transcript variant 2, mRNA
12268	_		3.54	4.0E-78	AB011399.1	¥	Homo sapiens gene for AF-6, complete cds
165	12770		1.86	3.0E-78	AF095901.1	Į.	Homo sapiens eRF1 gene, complete cds
165	12770	25184	1.86	3.0E-78	AF095901.1	PA FA	Homo saplens eRF1 gene, complete cds
	1						

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Тар Hit Descriptor
3764	16303		1.31	3.0E-78 A	AU140604.1	EST_HUMAN	AU140604 PLACE3 Homo sepiens cDNA clone PLACE3000373 5'
3823	16360	28760	0.93	3.0E-78	4507334 NT	NT	Homo saplens synaptojanin 1 (SYNJ1), mRNA
4121	16360		1.09	3.0E-78	4507334 NT	TN	Homo sepiens syneptojenin 1 (SYNJ1), mRNA
5345	17844		3.65	3.0E-78	4506328 NT	NT	Homo saplens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
10235	22636		5.47	3.0E-78	BE144758.1	EST_HUMAN	CM0-HT0180-041099-085-c07 HT0180 Homo sapiens cDNA
3082			2.83	2.0E-78	U04489.1	NT	Homo saplens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
4027	16560		2.13	7.0E-78	\A311872.1	EST_HUMAN	EST182683 Jurkat T-cells VI Homo sapiens cDNA 5' end
5347	17846		1.96	2.0E-78	E069220.1	EST_HUMAN	QV3-BT0380-171299-041-b02 BT0380 Homo sapiens cDNA
7960	20396	33264	1.13	2.0E-78	4W402306.1	EST_HUMAN	UI-HF-BK0-agl-g-10-0-UI.r1 NIH_MGC_36 Homo saplens cDNA clone IMAGE:3054139 61
7960	20396	33265	1.13		AW402306.1	EST_HUMAN	UI-HF-BK0-agl-g-10-0-UI.r1 NIH_MGC_36 Homo saplens cDNA clone IMAGE:3054139 5'
8280	20697	33588	3.68		BF689800.1	EST_HUMAN	602186529F1 NIH_MGC_49 Homo saplens cDNA clone IMAGE:4298599 5'
8661	21096	34002	3.33	2.0E-78	AV714177.1	EST_HUMAN	AV714177 DCB Homo sepiens cDNA clone DCBAWF09 5'
8965		34309	1.18		AI557509.1	EST_HUMAN	Ptz.1_16_B07.r tumor2 Homo sapiens cDNA 3'
8965	21398	34310			AI557509.1	EST_HUMAN	Pt2.1_16_B07.r tumor2 Homo saplens cDNA 3'
					, ,	100	qi50h05.x1 NCI_CGAP_Brit25 Homo saplens cDNA clone IMAGE:1859961 3' similar to WP:R90.1
10802		30288				ES HOMAN	CEOSES PRO EIN NIVASE,
10881						EST_HUMAN	HTM1-025F1 HTM1 Home saplens cDNA
10903			3.28	2.0E-78	N66951.1	EST_HUMAN	za48f12.s1 Soeres fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295623 3
5367	17865	30225		1.0E-78	4758843 NT	INT	Homo sapiens nucleoporin 155kD (NUP155) mRNA
5558	18147	30509		1.0E-78	11417304 NT	IN	Homo sapiens GAP-like protein (LOC51306), mRNA
7367	18037	30421	0.74	1.0E-78	AV648699.1	EST_HUMAN	AV648699 GLC Hano saplens cDNA done GLCBMC01 3'
8424	20838	33735	0.48	1.0E-78	A 631520.1	EST HUMAN	wa99s04.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2304270 3' similar to contains L1.b3 L1 repetitive element ;
		,			_		wagga04.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2304270 3' similar to contains L1.b3 L1
8424	20838	33736			AI631520.1	EST_HUMAN	repetitive element ;
8744	21178		2:92	1.0E-78	U52373.1	ΝΤ	Human serine/threonine kinase MNB (mnb) mRNA, complete cds
11840	24098	30995	1.57	1.0E-78	11436903 NT	N L	Homo sapiens similar to lymphocyte activation-associated protein (H. sapiens) (LOC63140), mRNA
4748	17262	L			11525891 NT	NT.	Homo saplens peptide YY (PYY), mRNA
4921	17432				BE000837.1	EST_HUMAN	RC2-BN0074-090300-014-c12 BN0074 Homo saplens cDNA
6689	18274	30695	18.65	9.0E-79	AB028070.1	NT	Homo sapiens mRNA for activator of S phase Kinasa, complete cds
6670	19218	31964	2.77	9.0E-79	6454145 NT	Ę	Homo sapiens ubiquitin-conjugating enzyme EZE 3 (homologous to yeast UBC4/5) (UBE2E3) mRNA
6978				l	11430822 NT	NT	Homo sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA
				l			

Probe	Exon	0		Most Similar	Too Ull Accident	Top Hit	
SEQ ID	"	OKT SEC ID NO:	Signal	(1 op) Hit BLAST E Value	lop Hit Acession No.	Database Source	Top Hit Descriptor
7819	24637		1.02	9.0E-79	11424427 NT	LN	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
8144	4 20587	33444	0.53	9.0E-79	D30658.1	NT	Human T-cell mRNA for glycyl tRNA synthetase, complete cds
8388	3 21820	34736	5.98	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds .
9388	3 21820	34737	5.98	82-30'6	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
10314		35679	1.78	9.0E-79	AF062346.1	F	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
10314	4 22714	35680	1.78	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
10848			4.33	9.0E-79	AY008273.1	ᅜ	Homo sapiens TRAF6-regulated IKK activator 1 beta Uev1A mRNA, complete cds
11266	3 23632		6.18	9.0E-79	11423827 NT	Z	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
11266		36683	5.18	9.0E-79	11423827 NT	N F	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
12492	24501	30882	1.82	9.0E-79	11417877 NT	TN.	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
3741	16281	28684	1.08	8.0E-79	AL163210.2	FZ	Homo sapiens chramosame 21 segment HS21C010
4528			5.56	8.0E-79	D28476.1	LZ LZ	Human mRNA for KIAA0045 gene, complete cds
4528	17047	29429	5.56	8.0E-79	D28476.1	LN	Human mRNA for KIAA0045 gene, complete cds
5198	17701	3006	2.25	8.0E-79	AF064755.1	Į.	Homo sapiens nuclear inhibitor of protein phosphatase-1 (PPP1R8) gene, exon 5
11660	18011	30443	1.25	8.0E-79	TN 2857387 NT	Ę	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
3213	15765	28185	14.6	7.0E-79	BE619648.1	EST_HUMAN	601472766T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875857 3'
11589	23028		2 6	0Z-3U 8	A A ROD8 20 4	ECT LIMAN	294604.s1 Soares_fetal_liver_spleen_1NPLS_S1 Homo septens cDNA clone IMAGE:482558 3' similar to
44262	L	22220	360	01.10.2	A1 489000 0		Here and the second of the sec
207	L		1 15	3.05-79	AE1103202.2	E L	Homo captats du companie about la seginati noz Lodoz. Homo captana intersacita about la doum (1720) mDNA commisto ado
1 2	L	L	2 9	1000	V 100010		Livers deports marged to the state of the st
3060	15614	28023	1.48	3.0E-/8	1100410 1	Z	Fromo sapiens ceruine tsAzona chionde fon current inducer protein (j.c.in.) gene, complete cas Himan vinc finate hydroin 2NE424 mDNA neutral cds
5817	L		78.4	3.0E-70	Ī,	Į.	riemmer and manage process. Early for an expension of the companies of the
5998	L	L	1.55	3.0E-79		L	Homo sapiens mRNA for KIAA0892 protein, partial cds
6026		L	0.96	3.0E-79	BE789470.1	EST HUMAN	601482143F1 NIH MGC 68 Homo septens cDNA clone IMAGE:3884554 5
6026	3 18600	31288	96.0		BE789470.1		601482143F1 NIH MGC 68 Homo sapiens cDNA clone IMAGE:3884554 67
6049	18621	31310	4.03		11426770	Ę	Homo saplens netrin 1 (NTN1), mRNA
6049	18621	31311	4.03	3.0E-79	11426770 NT	F	Homo sapiens neutin 1 (NTN1), mRNA
7125		32453	0.86		BE256893.1	EST_HUMAN	801112055F1 NIH_MGC_16 Homo septens cDNA clone IMAGE:3352885 6
7492	19696	32492	3.76	3.0E-79	AB014520.1	F	Homo sapiens mRNA for KIAA0620 protein, partial cds
7492	19696		3.76	3.0E-79	AB014520.1	E	Homo sapiens mRNA for KIAA0620 protein, partial cds
8462	2 20875	33775	0.59	3.0E-79	6912455 NT	Ł	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8749			1.21	3.0E-79	AF249273.1	NT	Homo sepiens Bci-2-associated transcription factor short form mRNA, complete cds
10642	23083	36067	5.1	3.0E-79	AF249273.1	F	Homo sapiens Bol-2-associated transcription factor short form mRNA, complete cds

ORF SEQ					
<u> </u>	Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	lop Hit Database Source	Top Hit Descriptor
38068	5.1	3.0E-79	_	NT	Homo saplens Bci-2-associated transcription factor short form mRNA, complete cds
36962	1.62	3.0E-79	3.0E-79 F05701.1	EST_HUMAN	HSC0JE081 normalized Infant brain cDNA Homo saplens cDNA clone c-0je08
	1.2	2.0E-79		EST_HUMAN	yr48f03.s1 Soares fefal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:208541 3'
25629	1.31	2.0E-79 BI	1	EST_HUMAN	601159415F2 NIH_MGC_53 Homo sapiens cDNA clane IMAGE:3511107 5'
25949	6.0	2.0E-79	4757841	N.	Homo saplens BCL2-like 2 (BCL2L2) mRNA
28004		2.0E-79	4885234	NT	Homo sapiens Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR) mRNA
26005		2.0E-79			Homo sapiens Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR) mRNA
	1.51	2.0E-79	523747.1	T_HUMAN	th18h07.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2118685 3'
26863	1.03	2.0E-79	7662255	NT	Homo sapiens KIAA0703 gene product (KIAA0703), mRNA
27091	3.44	2.0E-79	4585863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
27092		2.0E-79		TN	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE0A), mRNA
27131		2.0E-79	1271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
27672		2.0E-79	3023154.1	TN	Homo sapiens mRNA for KIAA0937 protein, partial cds
28869		2.0E-79		NT	Homo saplens chloride channel CLC4 (CIC4) mRNA, complete cds
29098	1.36	2.0E-79		N	Homo saplens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
29633	19.0	2.0E-79	AL163206.2	TN	Homo sapiens chromosome 21 segment HS21C006
30173	0.69	2.0E-79		NT	Homo saplens KIAA0879 protein (KIAA0879), mRNA
	1.04	2.0E-79	AA312223.1	EST HUMAN	EST182926 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, cosmid B0303.15
31261	0.79	2.0E-79	11181769	Ę	Homo sapiens X transporter protein 3 (XT3), mRNA
31859		2.0E-79	AB020837.1	TN	Homo saplens mRNA for KIAA0830 protein, partial cds
30430		2.0E-79		Ę	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete eds
32911	2.53	2.0E-79	32479	Ę	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
32912		2.0E-79	7382479	Į.	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
34042	1.2	2.0E-79	4506442	M	Homo saplens retinoblastoma-like 1 (p107) (RBL1) mRNA
34355	2	2.0E-79	11427428	F	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
35473		2.0E-79		N.	H4(D10S170)=putative cytoskeletal protein [human, thyrold, mRNA, 3011 nt]
35474		2.0E-79	Г	NT	H4(D10S170)=putative cytoskeletal protein [human, thyrold, mRNA, 3011 nt]
36223		2.0E-79		EST_HUMAN	RC4-BT0310-110300-015-110 BT0310 Homo septens cDNA
36224		2.0E-79	BE064386.1	EST HUMAN	RC4-BT0310-110300-016-f10 BT0310 Homo sapiens cDNA
30173			7682357	N	Homo saplens KIAA0879 protein (KIAA0879), mRNA
31008			AB020640.1	N	Homo saplens mRNA for KIAA0833 protein, partial cds
30975	2.73			NT	Homo sepiens cedherin EGF LAG seven-pass G-fype receptor 1 (CELSR1), mRNA
	25649 26004 27094 27094 27094 27094 27131 27131 27094 27098 28693 28693 30430 3108 34364 35474 35474 36223 30976		1.31 1.22 1.22 1.22 1.54 1.54 1.36 1.36 1.36 1.36 1.36 1.36 1.36 1.36	1.31 2.0E-79 4757841 1.22 2.0E-79 4885234 1.22 2.0E-79 4885234 1.22 2.0E-79 4885234 1.23 2.0E-79 4885234 1.03 2.0E-79 4885234 1.03 2.0E-79 4885234 3.44 2.0E-79 4885234 3.44 2.0E-79 4865863 3.44 2.0E-79 4586863 3.44 2.0E-79 AD023154.1 2.94 2.0E-79 AP170492.1 1.36 2.0E-79 AP170492.1 1.04 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.63 2.0E-79 AP263613.1 2.65 2.0E-79 AP263613.1 2.65 2.0E-79 AP26361.1 3.16 2.0E-79 BE064386.1 2.78 2.0E-79 AP320640.1 2.78 2.0E-79 AP320640.1	1.31 2.0E-79 4757841 NT 1.22 2.0E-79 4885234 NT 1.22 2.0E-79 4885234 NT 1.53 2.0E-79 4885234 NT 1.54 2.0E-79 4885234 NT 1.55 2.0E-79 4885234 NT 2.94 2.0E-79 4586863 NT 2.94 2.0E-79 4686863 NT 2.94 2.0E-79 4686863 NT 2.94 2.0E-79 4686863 NT 2.94 2.0E-79 477408.1 NT 2.94 2.0E-79 AF170492.1 NT 2.94 2.0E-79 AF170492.1 NT 1.36 2.0E-79 AF170492.1 NT 1.36 2.0E-79 AF3223.1 EST HUMAN 0.79 2.0E-79 AF283613.1 NT 2.63 2.0E-79 AF283613.1 NT 2.63 2.0E-79 AF382479 NT 2.53 2.0E-79 AF382479 NT 2.53 2.0E-79 AF382479 NT 1.2 2.0E-79 S72889.1 NT 1.94 2.0E-79 S72889.1 NT 1.94 2.0E-79 BE064386.1 EST HUMAN 3.15 2.0E-79 BE064388.1 EST HUMAN 3.15 2.0E-79 BE064388.1 EST HUMAN 3.16 2.0E-79 BE064388.1 EST HUMAN 4.22 2.0E-79 AF020840.1 NT 7.48 2.0E-79 AF020840.1 NT 7.49 2.0E-79 AF020840.1 NT 7.49 2.0E-79 AF020840.1 NT 7.49 2.0E-79 AF020840.1 NT

Top Hit Database Source	EST_HUMAN MRO-NN0087-280600-017-b10 NN0087 Homo sepiens cDNA	ty37e08.x1 NCI_CGAP_Ut2 Hamo saplens cDNA clone IMAGE:2281288 3' similar to TR:Q26623 Q26623 EST_HUMAN TEKTIN C1.;	1937e08.x1 NCI_CGAP_UZ Homo saplens cDNA clone IMAGE:2281286 3' similar to TR:Q28623 Q28823 FEST DI IMAN TEKTIN C1	Т	Т	T	Г		Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7A8), mRNA mRNA	Homo saplens solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7A8), many and many acid transporter, y+ system), member 8 (SLC7A8), many acid transporter, y+ system), member 8 (SLC7A8), many acid transporter, y+ system), member 8 (SLC7A8), many acid transporter, y+ system), member 8 (SLC7A8), many acid transporter, y+ system), member 8 (SLC7A8), many acid transporter, y+ system), member 8 (SLC7A8), many acid transporter, y+ system), member 8 (SLC7A8), many acid transporter, y+ system), member 9 (SLC7A8), many acid transporter, y+ system), member 9 (SLC7A8), many acid transporter, y+ system), member 9 (SLC7A8), many acid transporter, y+ system), member 10 (SLC7A8), many acid transporter, y+ system), member 10 (SLC7A8), many acid transporter, y+ system), member 10 (SLC7A8), many acid transporter, y+ system), member 10 (SLC7A8), many acid transporter, y+ system), member 10 (SLC7A8), many acid transporter,							NT Callithrix Jacohus oifsctory receptor (CJA80) gene, partiel cds	### ##################################	Г		NT Homo septens mRNA for dynain heavy chain (DNAH9 gene)	736 NT Homo sapiens tubby like protein 3 (TULP3), mRNA	393 NT Homo sepiens KIAA0941 protein (KIAA0941), mRNA					NT Homo saplens HSPC146 mRNA, complete cds
Top Hit Acessian No.	F363071.1	N613480.1	1842480 4	1.0E-79 AIO13405.1	1.0E-79 A1460115.1	9.0E-80 AA725848.1	1A725848.1	9.0E-80 BE798603.1	11433924 NT	TN 200001	7 2000	44.40064	1142204/.IN	114ZZ647 NT	6005921 NT	6005921 NT	4F127882.1	AI422197.1	U64898.1	11421462 NT	AJ404468.1	11436736 NT	7662393 NT	M18533.1	11526464 NT	11526464 NT	14 L I	AF161495.1
Most Similar (Top) Hit BLAST E Vatue	1.0E-79 BI	1.0E-79 A	100 70	1 05-701	1 0E-79 /	9.0E-80	9.0E-80	9.0E-80		0		8.0E-80	8.05-90	8.0E-80		8.0E-80	7.0E-80.7	6.0E-80	6.0E-80	L	6.0E-80					6.0E-80	6.0E-80	
Expression Signal	3.73	0.46	97.0	4 48	1.57	9.63	9.53	1.49	7.06	4 08	20.7	1.03	3.01	3.01	1.6	1.6	න.0	0.87	1.71	1.62	3.61		0.99	0.89	3.63	3.53	1.82	
ORF SEQ ID NO:		32393	1			28070			36497	ĺ	1		ı		34967	34968	66202	25824	26649	31349	31677			31949	34574	34575		34943
Exan SEQ ID NO:	24618	19598	40500		Ŀ		ı	22444	23472	23/77		\perp	⅃			22036	Ц	13477	14180	L	18940	19099	19147	19189	21665		21786	
Probe SEQ ID NO:	6940	7064	7087	44372	11749	3106	3106	10042	11046	4,04		3380	1518	8131	9621	9621	7390	828	1649	6085	6383	6547	6598	6651	9233	9233	9354	9280

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Top Hit Descriptor	Human cone photorecaptor cGMP-phosphodiesterase alpha' subunit gene, exon 21	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA	Homo sapiens Cyt19 mRNA, complete cds	Homo sapiens mRNA for KIAA0717 protein, partial cds	Homo sapiens mRNA for KIAA0717 protein, partial cds	Homo seplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	Homo saplens CST gene for cerebroside sulfotransferase, excm 1, 2, 3, 4, 5	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)	Homo saplens adenylosuccinate lyase gene, complete ods	Homo saplens probasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA	Homo saplens serine threonine protein kinase (MNBH) mRNA, complete cds	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds	H.saplens nox1 gene (exon 12)	Homo saplens chromosome 21 segment HS21C083	Homo sapiens mRNA for KIAA1434 protein, partial cds	Homo sapiens H3 histone family, member J (H3FJ) mRNA	Homo sapiens chromosome 21 segment HS21C068	w/32e09.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:2531272 3' similar to TR:035085. 035085 ARX HOMEOPROTEIN, ;contains TAR1.t1 TAR1 TAR1 repetitive element;	w/32e09.x1 NCI_CGAP_Ov18 Home sapiens cDNA clone IMAGE:2531272 3' similar to TR:O35085 O35085 ARX HOMEOPROTEIN .contains TAR1.t1 TAR1 TAR1 repetitive element:	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	HSPD13155 HM3 Homo saplens cDNA clone s4000045F03	Homo sapiens chromosome 21 segment HS21C010	QV4-BN0263-040600-241-910 BN0263 Hamo saplens cDNA	0x23e12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo septens cDNA clone IMAGE:1567054 3' similær to TR:035790 035780 PIG-L.:	Ng65a08.r1 Sceres Infant brain 1NIB Homo sapiens cDNA clone IMAGE:38060 5	RET4B7 subtracted retina cDNA library Homo sapiens cDNA clone RET4B7	DKFZp434D1323_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434D1323 5	wu03a04x1 NCI_CGAP_GC8 Home sapiens cDNA clone IMAGE:2515854 3'	wn49c10.x1 NCI_CGAP_Lu19 Homo saplens cDNA clone IMAGE:2448786 3'	wn49c10.x1 NCI_CGAP_Lu19 Hamo sapiens cDNA clane IMAGE:2448786 3'
Top Hit Database Source	NT	TN	E	ΕŽ	NT	5	Z	¥	Z	ΤN	TN	NT	NT	IN	ΝΤ	NT	IN	EST_HUMAN	EST HUMAN	۲	EST_HUMAN	N	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN
Top Hit Acesston No.	U20211.1	11427366 NT	AF226730.1		AB018260.1	AF240788 1	1	4J133127.1	AF108656.1	4506228 NT		1.1	(91647.1	AL163283.2	\B037855.1	4504292 NT	5.0E-80 AL163268.2	5.0E-80 AW028575.1	5.0E-80 AW028575.1	0293		L163210.2		3.0E-80 AI091675.1	35321.1	2.0E-80 AI444821.1			2.0E-80 AI923972.1	7
Most Similar (Top) Hit BLAST E Value	6.0E-80	6.0E-80	6.0E-80	6.0E-80	6.0E-80	6.0F-80	6.0E-80	6.0E-80	6.0E-80	5.0E-80	6.0E-80	5.0E-80	5.0E-80	5.0E-80	5.0E-80 A	5.0E-80	5.0E-80	5.0E-80	5.0E-80	5.0E-80	4.0E-80 F	3.0E-80 /	3.0E-80 B	3.0E-80	2.0E-80 F	2.0E-80 /	2.0E-80	2.0E-80 /	2.0E-80	2.0E-80
Expression Signal	1.66	3.3	25.86	99.08	6.68	231	6.26	2.74	1.25	1.55	1.92	1.92	1.27	3.62	7.22	2.77	1.29	0.42	0.42	0.92	12.57	12.5	8.1	219	3.2	6.0	4.16	7.74	0.67	0.67
ORF SEQ ID NO:			36441		36925				30852	25578	25859	25860			27352	27756	29922	33785	33796	34241	34908			31369	26787	26854	27006			31882
ਲ					23853	24757	<u>L</u>	24897	١.			_1		[17551	20901	20901				17489	18874	14300		14497	17752	19118	19118
Probe SEQ ID NO:	8638	10721	10995	11495	11495	11730	11939	12487	12595	909	828	828	1220	1485	2330	2753	6041	8489	8489	9888	9519	224	4978	6105	1776	1832	1981	6251	6587	6567

Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7195	19906	32736	0.83	2.0E-80 A	A582952.1	EST_HUMAN	nn80d01.s1 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:10901773'
7321	19733	32536	2.66	2.0E-80	11421830 NT	NT	Homo sapiens Golgi transport complex protein (90 kDa) (GTC90), mRNA
7701	20146	33004	0.77	2.0E-80 1	75215.1	EST_HUMAN	yc86f12.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE::22851 5' similar to SP:K1CR_XENIA P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B;
8515	1		0.43	2.0E-80	Γ	EST_HUMAN	DKFZp434E2217_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E2217 3'
9446	L			2.0E-80		EST_HUMAN	EST376343 MAGE resequences, MAGH Homo sapiens cDNA
8286	L	35221	1.09	2.0E-80	Г	NT	Homo saplens GGT gane, exon 6
10651	23091	36074	22.36		2.0E-80 AA393362.1	EST_HUMAN	z/70f12.r1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:72/72/7 6' similar to TR:G191315 G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN.;
11481	23839	36908	2.67	2.0E-80 B	BE253522.1	EST_HUMAN	801108820F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3344692 5'
11481	23839	36907	2.67	2.0E-80 B	E253522.1	EST_HUMAN	601108620F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3344692 5'
354			1.99	1.0E-80 /	L163303.2	INT	Homo sapiens chromosome 21 segment HS21C103
822	13380	25817	-	1.0E-80 A	F231920.1	NT NT	Homo sapiens chromosome 21 unknown mRNA
	L.						nn01f12.x5 NCI_CGAP_Co9 Homo sapiens cDNA clane IMAGE:1076495 3' similar to contains OFR.t1 OFR
1904	14423		1.45		1.0E-80 AI732656.1	EST_HUMAN	repetitive element;
4877	17389	29761	2.0	1.0E-80	N99520.1	EST HUMAN	zz38g07.r1 Soares fatal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:294972 5' similar to contains. Alu repetitive element:
5580	L		4.1	1.0E-80	11111	EST_HUMAN	601274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615433 5
6273	18836	31551	6.63	1.0E-80	L10347.1	Ę	Human pro-alpha1 type II collegen (COL2A1) gene exons 1-54, complete cds
1,6				00 10 7		ŀ	Homo sapiens malate dehydrogenase 2, NAD (mitochondriai) (MDH2), nuclear gene encoding mitochondriai
7652	2008	32050	5.5	1.0E-00	A 1224172 1	- LZ	Homo saniena mRNA for libonhilin B
8090	1		2.88	1.0E-80	A1948731.1	EST HUMAN	Wq25c05x1 NCI_CGAP_Kld11 Homo saplens cDNA clone (MAGE:2472296 3)
8090	<u> </u>	L		_	1.	EST HUMAN	wq25c05x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2472286 3'
8802	21236	34143	1.05	1.0E-80	11421211 NT	N F	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9136	21667	34473	0.98	1.0E-80	11421211 NT	LN L	Homo saplens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9135	21567	34474	96'0		11421211 NT	Ν	Homo sapiens protein tyrosine phosphalase, receptor type, A (PTPRA), mRNA
9539	21954	34876	1.34	1.0E-80	AF245219.1	LN LN	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
9539	21954	34877	1.34	1.0E-80	AF245219.1	N.	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
10321	22721	35689	0.88		D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10444	22895	35871	4.3	1.0E-80	11641276 NT	 	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
10444	li					Į.	Homo sapiens similar to rat myomegalin (LOC84182), mRNA
12015		30949				NT	Homo sapiens meningtoma (disrupted in balanced translocation) 1 (MN1), mRNA
12277	24370		1.86	1.0E-80	AB011399.1	N	Hamo sapiens gene for AF-6, complete cds

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10475				l	AI251752.1	EST_HUMAN	qh90g05x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854286 3'
10475		36906	1.89	8.0E-81 AI	251752.1	EST_HUMAN	qh90g05.x1 Scares_NFL_T_GBC_S1 Hamo sapiens.cDNA clone IMAGE:1884298 3'
10933	23365	36375			8.0E-81 BE384525.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo saplens cDNA clane IMAGE:3632070 5
							ze21d10.r1 Soares, fetal, heart, NbHH19W Homo seplens cDNA done IMAGE:359835 6' similer to SW:KRHA_RABIT Q02957 KERATIN, GLYCINE/TYROSINE-RICH OF HAIR. [1]; contains element MER22
2112	14625		1.25	7.0E-81	_	EST HUMAN	repetitive element;
7702	20147	33005				EST_HUMAN	za91c08.x5 Soares_fetal_lung_NbHL19W Homo saplens oDNA clone IMAGE:289918 3'
4409	16930	29320	76'4		6.0E-81 BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4409	16930				6.0E-81 BE256829.1	EST HUMAN	601111970F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3352840 5'
5534	18124	30479	1.69	6.0E-81	4501848	NT	Homo saplens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
6534	18124			6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
8111	20537			6.0E-81 A	F038660.1	NT	Homo sapians chromosome 1p33-p34 beta-1,4-galactosyltransferase mRNA, complete cds
9502	21933		1.55	6.0E-81	6.0E-81 AA360017.1	EST_HUMAN	EST69129 Fetal lung II Homo sapiens cDNA 5' end
12169	24292		1.5		6.0E-81 BF879022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo saplens cDNA done IMAGE:4294601 5'
12169			1.5		6.0E-81 BF679022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo saplens cDNA clone IMAGE:4294601 5'
2122	. 1					EST_HUMAN	601125505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345480 5'
8839	J					NT	Homo saplens mRNA for KIAA0454 protein, partial cds
8939					1.1	IN	Homo saplens mRNA for KIAA0454 protein, partial cds
9797			1.08		160316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
9797	22200				M60316.1	LN	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11331	23695	36747	2.16	5.0E-81	9506634 NT	LN	Homo sapiens hypothetical protein (FLJ11045), mRNA
228	12830	25243	0.64	4.0E-81 A	F252257.1	TN	Homo sapiens CRP2 binding protein mRNA, partial cds
22	14283	80736	60.4		4 OE-84 AIE2442E 4	NVM IT LOS	th60e12.x1 NCI_CGAP_Ovz3 Homo septens cDNA clone IMAGE:2122702 3' similar to TR:Q85550 Q85560
3130					4.0E-81 AB037766.1	NT	Homo saplens mRNA for KIAA1345 protein, partial cds
							ws90h03.x1 NCI_CGAP_Co3 Homo saplens cDNA clone IMAGE:2505289 3' similar to TR:043815 043815
3626	- 1				4.0E-81 AW004608.1	EST_HUMAN	STRIATIN.;
4177					4.0E-81 AF283306.1	IN	Homo saplens rab3 Interacting protein variant 2 mRNA, partial ods
4177	16704					NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4415	16936	29327	1.25	4.0E-81	8923209 NT	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
7731		33034		4.0E-81	4757893 NT	_ <u>F</u>	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delfa subunit (CACNA2) mRNA
7879	20318		0.54		11420544 NT	닐	Homo sapiens ets variant gene 1 (ETV1), mRNA
8842		34186		4.0E-81 X	06989	TN	Human mRNA for amyloid A4(751) protein

Probe SEQ ID 8 NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
8033	21465	34373	3.35	4.0E-81	U20197.1	NT	Human cons photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
8033	21465	34374	3.35	4.0E-81	U20197.1	M	Human cone photoreceptor cGM/P-phosphodiesterase alpha' subunit gene, exons 2 and 3
9486	21927	34851	4.33	4.0E-81	AB018001.1	NT	Homo sepiens mRNA for Death-associated protein kinase 2, complete cds
10117	22518	35483	1.7.1	4.0E-81	11425281 NT	NT	Homo saplens ligase I, DNA, ATP-dependent (LIG1), mRNA
10960	23389	36389	4.42	4.0E-81	4759085 NT	L	Homo sapiens vesicle trafficking protein sec22b (SEC22B) mRNA
10960	23389		4.42	4.0E-81	4759085 NT	NT.	Homo sapiens vesicle trafficking protein sec22b (SEC22B) mRNA
11620	24827	20593	4.77	4.0兵-81	11417862 NT	Ę	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11620	24827	30594	4.77	4.0E-81	11417862 NT	N.	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12365	24416	30894	5.1	4.0E-81	11417974 NT	Ľ	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1300	13835	26282	11.15	3.0E-81	Y18000.1	LN	Homo sapiens NF2 gene
1300	13835	26283	11.15	3.0E-81	718000.1	LN	Homo sapiens NF2 gene
2265	14773	27294	1.17	3.0E-81	AF077188.1	NT	Homo sepiens cullin 4A (CUL4A) mRNA, complete cds
2946	15501	27920	6.76	3.0E-81	4506280 NT	NT	Homo sapiens pletotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2846	15501	27921	6.76	3.0E-81	4606280 NT	Į.	Homo sepiens pleiotrophin (heparth binding growth factor 8, neurlte growth-promoting factor 1) (PTN) mRNA
5104	17613		2.45	3.0E-81	AL163283.2	NT.	Homo saplens chromosome 21 segment HS21C083
6381	17878	30240	1.13	3.0E-81	6382070 NT	LN	Homo sapiens diaphanous (Drosophila, homolog) 2 (DIAPH2), transcript variant 12C, mRNA
2790	15347		2.28	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Hamo saplens cDNA clane IMAGE:3877121 5'
2790	15347	27769	2.29	2.0E-81	BE784636.1	EST_HUMAN	801474072F1 NIH_MGC_68 Homo saplens cDNA clone IMAGE:3877121 5'
3774	16312	28713	0.86	2.0E-81	AW611542.1	EST_HUMAN	hg85c01.x1 NCI_CGAP_Kld11 Homo sepiens cDNA clone IMAGE.2952384 3'
4722	17238		1.78	2.0E-81	5453871 NT	TN	Homo saplens platelet-derived growth factor receptor-like (PDGFRL) mRNA
12531	16312		3.01	2.0E-81	AW611542.1	EST_HUMAN	hg85c01,x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2952384 3'
3652	16192	28599	1.58	1.0E-81	AW960658.1	EST_HUMAN	EST372729 MAGE resequences, MAGF Hamo sapiens cDNA
4552	17069	29451	3.74	1.05-84	AA040370.1	EST HUMAN	2/45h09.r1 Soares_pregnant_uterus_NbHPU Homo septens cDNA clone IMAGE:485825 5' similar to PR:S52437 S52437 CDP-disc/violocerol synthese - fruit fly:
4691	17207	<u> </u>	6.79	1.0E-81	BE047996.1	EST HUMAN	1245c04.y1 NCI_CGAP_Bm52 Homo saplens cDNA clone IMAGE:2291528 5
5486	17998		3.56		U87928.1	TN	Human aconitate hydratase (ACO2) gene, exon 3
6099	18197	30562	6.71	1.0E-81	11432966 NT	ĮN	Hamo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5609	18197	£990£	5.71	1.0E-81	11432966 NT	NT	Hamo sapiens polymerase (DNA directed), gamma (POLG), mRNA
6784	18345	30801	0.74	1.0E-81	AA26669.1	EST HUMAN	z85d06.r1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:682475 5' similar to SW:PRI2_HUMAN P49643 DNA PRIMASE 58 KD SUBUNIT :
6823	18501		2.99		U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurojungin (CTNND2) mRNA, partial cds
6923	18501	31183	2.99	1.0E-81	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurojungin (CTNND2) mRNA, partial cds

Probe E SEQ ID SE NO:	Exon SEQ ID NO:	SEQ Expression O: Signal	Most Similar (Top) Hit BLAST E Velue	Top Hit Acessbon No.	Top Hit Database Source	Top Hit Descriptor
ı	19015 31	31749 1.4	1.48 1.0E-81	BF674641.1	EST_HUMAN	602137864F1 NIH_MGC_83 Homo sapiens cDNA clane IMAGE:4274635 5
	19440 32	32215 0.64	84 1.0E-81	11420965 NT	TN	Homo saplens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
1	19440 32	32216 0.64	1.0E-81	11420965 NT	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
l		22447	40 110 4	14322804	Ę	Homo sapiens caveolin-1/-2 locus, Contig1, D7S622, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and
0117	2021			4144706B	Ę	Homo seniens polymerase (DNA directed), gamma (POLG), mRNA
				AJ250408.1	NT	Homo saptens GLI3 gene for GLI3 protein
上				BE958278.1	EST HUMAN	601646051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5
<u> </u>			l	100	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
	22412 3		5.73 1.0E-81	1 BE564367.1	EST_HUMAN	601343180F1 NIH_MGC_53 Hamo sapiens cDNA clone IMAGE:3686483 5'
	ŀ		}			ac14d06.s1 Stratagene HeLa cell e3 937216 Homo sepiens cDNA cione iMAGE:956427 3' similar to SW:YB36_YEAST P38126 HYPOTHETICAL 90.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC
				1	EST_HUMAN	REGION,
10121	22522 3	35487 2.9	2.98 1.0E-81	1 BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_9 Hamo sepiens cDNA clane IMAGE:3838280 5
10121		35488 2.9	2.98 1.0E-81	1 BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3838280 5'
		35749 1.	1.59 1.0E-81	AW8975	EST_HUMAN	CM3-NN0058-140400-147-e12 NN0059 Hamo sapiens cDNA
Ш			3.27 1.0E-81		NT	Homo seplens golgin-like protein (GLP), mRNA
		36298 2.		1 AW844986.1	EST_HUMAN	MR0-CT0006-250599-019 CT0008 Homo sepiens cDNA
10871	23304 36	36299 2.		1 AW844986.1	EST_HUMAN	MR0-CT0006-260599-019 CT0008 Homo sepiens cDNA
Ļ		36305 7.	7.78 1.0E-81	1 AW798167.1	EST_HUMAN	RC3-UM0046-280200-011-e06 UM0046 Homo sapiens cDNA
10876		36306 7.	7.78 1.0E-81	1 AW798167.1	EST_HUMAN	RC3-UM0046-290200-011-a06 UM0046 Homo sapiens cDNA
		1		1 AW960858.1	EST_HUMAN	EST372729 MAGE resequences, MAGF Homo saplens cDNA
			5.13 1.0E-81	BF2042	EST_HUMAN	601867714F1 NIH_MGC_17 Hamo sapians cDNA clane IMAGE:4110459 5'
11843	24093 3	30993 4.	4.61 1.0E-81	1 11418138 NT	NT	Homo sepiens phorbolin (similar to apolipoprotein B mRNA editing protein) (DJ742C19.2), mRNA
12			3.58 8.0E-82	2 AF161406.1	L	Home saplens HSPC288 mRNA, partfal cds
110			1.74 8.0E-82	2 AF161406.1	IN	Homo sapiens HSPC288 mRNA, partial cds
			1.64 8.0E-82	2 008988.1	NT	Human CRFB4 gene, partial ods
837	13394 2	26832 3.	3.01 8.0E-82	2 008988.1	TN	Human CRFB4 gene, partial cds
L	13464 2	25912	1.5 8.0E-82	2 U08988.1	NT	Human CRFB4 gene, partial cds
			1.18 8.0E-82	2 AB037748.1	FN	Homo sapiens mRNA for KIAA1327 protein, partial cds
18BO	14100	26887	4 4B	TN 1083178	14	Homo sapiens glutathione peroxidase 5 (epkildymai androgen-related protein) (GPX5), transcript variant 2, mRNA
1					NT	Homo sapiens hypothetical protein FLJ20461 (FLJ20461), mRNA
上			1.31 7.0E-82	BF03532	EST HUMAN	801458531F1 NIH MGC 66 Homo sapiens cDNA clone IMAGE:3862086 6'
J						

Top Hit Descriptor	AU144050 HEMBA1 Hamo saplens cDNA clone HEMBA10007523'	Homo saplens alpha-tubulin isoform 1 mRNA, complete cds	QV2-HT0540-120900-362-f08 HT0540 Homo sepiens cDNA	QV2-HT0540-120900-362-f08 HT0540 Homo sapiens cDNA	Human von Willebrand factor gene, exon 9	wp75e09.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR:075276 076276 PKD1;	Homo sepiens presentilin-1 gene, exons 1 and 2	Homo saplens amyloid beta (A4) precursor protein (protesse nextn-ll, Alzheimer disease) (APP), mRNA	RC2-BN0120-010400-013-f02 BN0120 Homo saplens cDNA	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA	Homo saplens amyloid beta (A4) precursor protein (protease nextn-li, Alzheimer disease) (APP). mRNA	al23e05.s1 Soares testis. NHT Homo sapiens CDNA clone 1343648.3'	RC8-PT0001-190100-021-B02 PT0001 Homo saplens cDNA	Homo sapiens chromosome 21 segment HS21C085	RC1-BN0005-280700-018-g04 BN0005 Homo sapiens cDNA	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA	Homo sepiens enkyrlin-like with transmembrane domains 1 (ANKTM1), mRNA	Homo sapiens contactin 6 (CNTN6), mRNA	Homo seplens contactin 6 (CNTN6), mRNA	Homo sapiens mRNA for KIAA1077 protein, partial cds	Homo sapiens mRNA for KIAA1077 protein, partial cds	Homo sapiens mRNA for KIAA0999 protein, partial cds	Homo sapiens mRNA for KIAA0899 protein, partial cds	DKFZp434M117_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434M117 5	Homo sapiens chromosome 21 segment HS210001	Homo sapiens DNA for amyloid precursor protein, complete cds	Human integral membrane serine protease Seprase mRNA, complete cds	Homo sapiens glutamate receptor, lonotropic, kainate 1 (GRIK1) mRNA	Homo sapiens mRNA for KIAA1098 protein, pertial cds	Homo saplens mRNA for KIAA1096 protein, pertial cds
Top Hit Database Source	EST_HUMAN A	Г	EST_HUMAN Q	EST_HUMAN Q	Π	EST HUMAN O	T		T HUMAN	C.		T HUMAN	HUMAN		EST HUMAN R					H IN	H	Ĭ	Ĭ.	EST HUMAN D	Г		F F		H L	H H
Top Hit Acession No.	U144050.1	F081484.1	F351691.1	F351691.1	125833.1	4.0E-82 A1937300.1	F029701.2	4502166 NT	E005705.1	5174702	4502166 NT	A725848.1	3.0E-82 AW875073.1	3.0E-82 AL163285.2	E813232.1	5453811 NT	11425206 NT	11432889 NT				2.0E-82 AB023216.1	2.0E-82 AB023216.1	2.0E-82 AL046390.1	2.0E-82 AL163201.2	387675.1	J76833.1	4504116 NT		2.0E-82 AB028019.1
Most Similar (Top) Hit BLAST E Value	7.0E-82 A	4.0E-82 A	4.0E-82 B	4.0E-82	4.0E-82	4.0E-82	4.0E-82.A	3.0E-82	3.0E-82 B	3.0E-82	3.0E-82	3.0E-82 A	3.0E-82 /	3.0E-82	3.0E-82 B	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82
Expression Signal	1.62	13.64	0.74	0.74	0.68	19.7	. 4.67	20.1	2.19	6.01	5.23	21.18	1.35	2.66	1.12	2.77	2.68	1.02	1.02	9	9	1.71	1.71	1.24	0.71	1.37	0.62	1.25	1.29	1.29
ORF SEQ ID NO:		26675				29898		25308	25709	25805	25896		26377	26480	26875									26693	27909			29161		29500
Exan SEQ ID NO:	15214				18610	23798	24251	12888	13284	13368	13448	13633		14027	14384				21472	22313	22313	13182	\Box				_ {	. [17110
Probe SEQ ID NO:	2724	1670	2228	6768	8036	11438	12105	294	723	810	893	1087	1385	1495	1862	3234	8738	9040	9040	9911	8911	614	614	1684	2833	3853	4034	4250	4694	4294

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	Top Hit Descriptor	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR6) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds	Homo saplens turnor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA	Homo sapiens mRNA for KIAA0727 protein, partial cds	Homo saplens FAM4A1 spilce variant a (FAM4A1) mRNA, complete cds	tm2/g05x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:21572723'	Homo saplens hypothetical protein FLJ20128 (FLJ20128), mRNA	Homo saplens silt (Drosophila) homolog 3 (SLIT3), mRNA	Human endogenous retrovirus-K, LTR U6 and gag gene	Human endogenous retrowns-K, LTR U5 and gag gene	Homo sapiens leucy//cystinyl aminopeptidase (LNPEP), mRNA	Homo sapiens leucy/cystinyl eminopeptidase (LNPEP), mRNA	Homo sapiens CAGF9 mRNA, partial cds	Homo saplens CAGF9 mRNA, partial cds	Homo saptens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA	zb31d10.s1 Scares_parathyroid_turnor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'	zi01g09.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429368 5	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA	801510859F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912207 5	RC4-BT0310-110300-015-f10 BT0310 Homo saplens cDNA	Homo saplens mRNA for KIAA0538 protein, partial cds	Homo saplans mRNA for KIAA1417 protein, partial cds	UI-H-BW 1-ace-f-03-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084053 3'	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3	(UBE2D3) genes, complete cds	602150403F1 NIH_MGC_81 Home saplens cDNA clone IMAGE:4291561 5'	601117160F1 NIH_MGC_16 Hamo saplens cDNA clone INAGE:3357734 5	801273346F1 NIH_MGC_20 Homo septens cDNA clone IMAGE:3614362 5	za48f12.s1 Soares fetal Ilver spleen 1NFLS Homo septens cDNA clone IMAGE:295823:3'	QV4-LT0016-271299-068-h11 LT0016 Homo sepiens cDNA	not2h01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element;
	Top Hit Database Source	FZ	F	TN	NT	IN	EST_HUMAN	TN	LN	NT.	NT.	NT	¥	TN	NT	F	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	NT	NT	EST_HUMAN		¥	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
	Top Hit Acession No.	AF045555.1	4507580 NT	4507580 NT	4B018270.1	AF234882.1	AI476428.1	8923130 NT	11321570 NT	Y08032.1	Y08032.1	11417191 NT	11417191 NT	J80736.1	U80736.1	5031680 NT	N94950.1	AA011278.1	11645921 NT	BE885106.1	BE064386.1	AB011110.2	AB037838.1	BF616938.1		AF224669.1	BF672220.1	BE253347.1	BE383973.1	N66951,1	AW385529.1	AA584655.1
	Most Similar (Top) Hit BLAST E Value	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	1.0E-82	1.0E-82	1.0E-82	1.0E-82	1.0E-82	1.0E-82		9.0E-83	9.0E-83	9.0E-83	8.0E-83	8.0E-83	7.0E-83	7.0E-83
	Expression Signal	2.58	1.48	1.48	4.25	5.08	1.22	0.99	1.83	1.8	1.8	10.04	10.04	2.48	2.48	2.34	2.88	3.62	1.48	2.68	1.99	2.29	98'0	1.39		1.08	9.07	1.05	2.19	4.88	0.88	1.33
	ORF SEQ ID NO:	29817	20022	30078	30742	31784		33713	34200		35491	36487	36488	36531	36532	36886			25580		26302	26303								26687	26378	
	Exen SEQ ID NO:	17440	17713	17713	18311	19044	24994	20815	21289	22524	22524	23466	23466	23502	23502	23822	23971	24338			13853		21734	22609		- 1	- 1			15264	13922	16374
	Probe SEQ ID NO:	4929	5210	5210	6229	6489	8218	8401	8825	10123	10123	11039	11039	11077	11077	11464	11850	12229	609	1239	1318	1319	9302	10208		5374	9146	10228	1445	1680	1387	2818

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Top Hit Descriptor	7p37a07.x1 NCI_CGAP_Pr28 Homo saplens cDNA clone IMAGE:3847893 3' similar to TR:Q9Y3i6 Q9Y3i6 DJ207H1.1;	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29	QV4-ST0234-181199-037-f05 ST0234 Homo saplens cDNA	Homo sapiens chromosome 21 unknown mRNA	259c05.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMACE:435080 3'	Homo saplens hypothetical protein FLJ10379 (FLJ10379), mRNA	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated protein A (33kD) (VAPA) mRNA,	Homo saniens hweden eans exes 1-80	Home saplens me professional heraltende grandit factor recentor (MET) mRNA	Homo sapiens myamesin (M-arabin) 2 (165kD) (MYOM2), mRNA	Homo sapiens pre-mRNA splicing factor similar to S. cerevistae Pro-18 (PRP-18), mRNA	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Pro18 (PRP18), mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	Human succinate dehydrogenase Iron-protein subunit (sdhB) gene, exon 5	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds	Novel human gene mapping to chomosome X	Homo sapiens deoxyribonuclease I (DNASE1), mRNA	Homo sapiens catalase (CAT) mRNA	Homo sapiens catalase (CAT) mRNA	Homo saplans dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, excn 11	Home sapiens mannosklase, beta A, hacsomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3	FST79542 Placente I Home canlene cDNA cimilar to cimilar to controcancia administration EDVA	mp87c07.st NCI CGAP Thyr Home stations cDNA clone IMAGE:133392 similar to cantains THR 12 THR	repetitive element;	qf73e06.x1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1755682 3'	ot64g05.s1 Soares_testis_NHT Home saplens cDNA clone IMAGE:1621592.3' similar to TR:092614 Q92814 MYELOBLAST KIAA0218.;	ot64g05.s1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:1621692 3' similar to TR:092614 092814 MYELOBLAST KIAA0218.
Top Hit Database Source	EST HUMAN	NT	F	EST_HUMAN	NT	EST_HUMAN	LN LN	- - - -	TN.	NT.	Į.	Z	N.		占	N.	N FN	IN	NT	님	R	LN	T.N	EST HIMAN		EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN
Top Hit Acession No.	3F221813.1	11426657 NT	M33320.1	4W816405.1		4A701457.1	11430241 NT	TN 8880784	4.1010770 1	20024	4505314 NT	11430647 NT	11430647 NT		4F240786.1	J17883.1	AF006305.1	AL133207.2	4885190 NT	4557013 NT	4557013 NT	AF083827.1	AF2248RQ 1			4A632654.1	41217223.1	4A993492.1	4A993492.1
Most Similar (Top) Hit BLAST E Value	7.0E-83	7.0E-83	6.0E-83	8.0E-83	6.0E-83	6.0E-83	8.0E-83	8 OF-83		_	6.0E-83	6.0E-83	6.0E-83		6.0E-83		5.0E-83		5.0E-83	€.0E-83	5.0E-83	5.0E-83	4 0F-83	•		3.0E-83		2.0E-83	2.0E-83
Expression Signal	7.61	17.0	1.72	0.85	0.73	1.15	1.05	1.97	137	184	2.66	0.85	0.85		4.05	1.39	1.58	0.95	0.62	14.25	14.25	1.1	1.28	4.80		3.81	0.88	1.03	1.03
ORF SEQ ID NO:		31649					28509	30492				Ĺ	35223					28586				30183	25635					26789	26790
Exan SEQ ID NO:	17384	18915	12994	16532	15586	15585	16092	18135	18886	20440	22220	22282	22282			13523	15267					17824	13224	13575			19470	14302	14302
Probe SEQ ID NO:	4872	6357	420	2977	3011	3030	3550	5545	6327	8007	9817	8879	9879		11598	970	1977	3638	3918	5208	5208	5324	658	1024		2736	6931	1777	1777

Single Exon Probes Expressed in Lung	Top Hit Descriptor	za48f12.s1 Soares fetal liver spleen 1NFLS Homo septens cDNA clone IMAGE:295823 3'	Homo saplens mRNA for KIAA1272 protein, partial cds	RC6-ET0046-280600-013-H12 ET0046 Homo saplens cDNA	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA	Homo sapiens chromosome 21 segment HS210002	Homo sapiens hematopoletic progenitor cell antigen CD34 precursor (CD34) mRNA, partial cds	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA	Homo sapians ankyrin repsat-containing protein ASB-2 (LOC51676), mRNA	Human carcinoembryonic antigen gene family member 18 (CGM18) gene, excns A1 and B1	Homo sapiens myosin, heavy polypeptide 4, skeletal muscie (MYH4), mRNA	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA	Homo sapiens membrane protein CH1 (CH1), mRNA	601507482F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909068 5	Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds	Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds	601822090F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042318 6	Rattus norvegicus densin-180 mRNA, complete cds	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1	Homo saplens protein kinase CK2 catalytic subunit alpha gene, exon 1	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end	Human neural cell adhesion molecule (N-CAM) secreted isaform mRNA, 3' and	AU117659 HEMBA1 Homo saplens cDNA clone HEMBA1001910 6'	UI-HF-BN0-amd-h-07-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081852 6'	Homo sapiens KIAA0985 protein (KIAA0985), mRNA	DKFZp547J135_r1 647 (synanym: hfbr1) Homo saplens aDNA alane DKFZp547J136 6'	DKFZp547J135_71 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp547J135 6'	Homo sapiens gene for AF-6, complete cds	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolass/enoyl-Coenzyme A hydroxyacyl-Coenzyme A hydroxyacyl-Coenzyme A hydroxyacyl-Coenzyme A hydroxyacyl-Coenzyme A hydroxyacyl-Coenzyme A hydroxyacyl-Coenzyme A coenzyme A hydroxyacyl-Coenzyme A coenzyme ome sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thickase/encyl-Coenzyme A	hydratase (trifunctional protein), beta subunit (HADHB) mRNA	601507375F1 NIH_MGC_71 Homo sepiens cDNA clone IMAGE:3908754 5	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds	H.saplens gene for mitochandrial dodecencyl-CoA delta-isomerase, exon 3	
JIB EXON PIO	Top Hit Database Source	EST_HUMAN	IN	EST_HUMAN	ħ	TN	LN	NT	NT	TN	NT	LN	NT	EST_HUMAN	NT	NT	EST_HUMAN	ΤN	LN LN	LN LN	NT	. IN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	NT	<u> F</u>		ᅜ	EST_HUMAN	LN	TN
DUIC	Top Hit Acession No.	166951.1	2.0E-83 AB033098.1	3E828694.1	11430834 NT	JL 163202.2	F202879.1	7706398 NT	7706398 NT	106679.1	11024711 NT	11024711 NT	11428081 NT	3E885401.1	VF129533.1		1.	J66707.1	NF011920.1	VF011920.1	M22094.1	M22094.1		4W 505600.1	11436448 NT	1L134452.1	9L134452.1	4B011399.1	TIM 00000	OSCHOOL STATE	4504326 NT	3E883690.1	1.1	225822.1
	Most Similar (Top) Hit BLAST E Value	2.0E-83	2.0E-83	2.0E-83	2.0E-83	2.0E-83 A	2.0E-83 A	2.0E-83	2.0E-83	2.0E-83 L	2.0E-83	2.0E-83	2.0E-83	2.0E-83	2.0E-83 /	-	-	2.0E-83	2.0E-83 /	2.0E-83 /	2.0E-83 N		í	-	2.0E-83	· 2.0E-83		2.0E-83 /	4 015 92	2001	1.0E-83	1.0E-83		1.0E-83
	Expression Signal	5.29	1.16	1.36	2.57	0.94	8.37	2.42	2.42	ee.o	0.8	8.0	0.88	1.44	0.54	5.45	0.76	1.69	2.05	2.05	2.42	2.42	1.6	1.21	3.97	2.1	2.1	3.49	1 30	SC:-	1.39	4.83	4.27	1.67
	ORF SEQ ID NO:	26894	27118	27780			29264	29592	29593	30469	30743	30744	31397	31543	32454	33225	33710	33987			35414			35537	36052		36127		PENAC	1				29171
	Exan SEQ ID NO:	14400	14601	15364	15783	16313	16881	17213	17213	18112	18312	18312	18701	18829		20358		21059	21295	21295	22462					23144		24367	12075	1				16786
	Probe SEQ ID NO:	1878	2087	2807	3231	3776	4329	4697	4697	5522	6730	2230	6132	6265	7126	7920	8398	8624	8861	8861	10061	10061	10128	10170	10625	10705	10705	12274	4443		- 4 43	2593	3876	4281

Expn NO: CRF SEQ ID NO: Expression Signal Most Similar Value Top Hit Acession Value Top Hit Acession Source Top Hit A						,	יהי ו ווסעם פופ	Single Exoll Flobes Expressed in Eding
17462 28838 3.44 1.0E-83 4502166 NT 16800 32396 1.79 1.0E-83 A1027614.1 EST_HUMAN 18826 28738 3.73 7.0E-84 BE601209.1 EST_HUMAN 13862 28738 3.73 7.0E-84 BE601209.1 EST_HUMAN 13862 2871 3.6 6.0E-84 BE838864.1 EST_HUMAN 13862 2871 3.4 6.0E-84 BE838864.1 EST_HUMAN 18804 27322 3.4 6.0E-84 AL776574.1 EST_HUMAN 18507 31192 1.14 6.0E-84 AL776574.1 EST_HUMAN 20409 33279 3.4 6.0E-84 BE810371.1 EST_HUMAN 20409 33279 3.4 6.0E-84 BE610371.1 EST_HUMAN 13205 25720 1.08 6.0E-84 AR6738281.1 NT 14527 1.08 6.0E-84 AR6738281.1 NT 1525 25720 1.08 5.0E	Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
19800 32396 1.79 1.0E-83 AIOZ7614.1 EST_HUMAN 19822 28310 3.73 7.0E-84 BE691209.1 EST_HUMAN 13862 28310 3.6 6.0E-84 BE688684.1 EST_HUMAN 13862 28311 3.6 6.0E-84 BE688864.1 EST_HUMAN 14804 27322 3.4 6 6.0E-84 BE688864.1 EST_HUMAN 18000 3.2051 1.91 6.0E-84 AA697339.1 EST_HUMAN 18000 33279 3.48 6.0E-84 AA697339.1 EST_HUMAN 13062 25720 1.14 6.0E-84 BE810371.1 EST_HUMAN 150040 33279 3.48 6.0E-84 BE810371.1 EST_HUMAN 150040 33541 0.89 6.0E-84 BE810371.1 EST_HUMAN 150040 33641 0.89 6.0E-84 BE810371.1 EST_HUMAN 150040 33078 0.49 6.0E-84 AA69739.1 EST_HUMAN 150040 33078 2.66 5.0E-84 AA69739.1 EST_HUMAN 150040 33078 2.66 5.0E-84 AA69739.1 NT 20400 30708 2.66 5.0E-84 AA69739.1 EST_HUMAN 17646 20017 0.65 4.0E-84 AB633257.1 NT 20400 30708 2.66 5.0E-84 AA69739.1 EST_HUMAN 17646 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17647 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17648 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17648 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17647 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17647 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17647 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17647 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17647 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17647 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17647 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17647 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17648 20017 0.65 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.65 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.65 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.65 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.65 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB633257.1 EST_HUMAN 17648 20018 0.66 4.0E-84 AB63323325	4951			3.44	1.0E-83		TN	Homo sapiens amyloid beta (A4) precursor protein (protease nextn-II, Alzheimer disease) (APP), mRNA
18356 28738 3.73 7.0E-84 BE601206.1 EST HUMAN 13862 28310 3.6 6.0E-84 BE83864.1 EST HUMAN 13862 28311 3.6 6.0E-84 BE83864.1 EST HUMAN 14804 27322 3.46 6.0E-84 AA776574.1 EST HUMAN 17824 30276 4.27 6.0E-84 AA776574.1 EST HUMAN 18000 3175 4.27 6.0E-84 AA776574.1 EST HUMAN 18507 31191 1.14 6.0E-84 AA897339.1 EST HUMAN 20409 33279 3.48 6.0E-84 BE70199.1 EST HUMAN 20409 33541 0.89 6.0E-84 BE70199.1 EST HUMAN 13266 25720 1.08 6.0E-84 BA70871.1 EST HUMAN 15527 1.08 6.0E-84 BA70871.1 EST HUMAN 15627 31708 0.49 6.0E-84 AA109718.1 NT 23764 33612 2.77 6.0E-84 AA108718.1 NT 23754 38811 2.77 6.0E-84 AA108718.1 NT <td>7066</td> <td></td> <td></td> <td>1.79</td> <td>1.0E-83</td> <td></td> <td>EST_HUMAN</td> <td>ov89b08x1 Soares_testis_NHT Homo sepiens cDNA clone IMAGE:1845431 3' similer to gb:M64241 QM PROTEIN (HUMAN);</td>	7066			1.79	1.0E-83		EST_HUMAN	ov89b08x1 Soares_testis_NHT Homo sepiens cDNA clone IMAGE:1845431 3' similer to gb:M64241 QM PROTEIN (HUMAN);
13862 26310 3.6 6.0E-84 BE83864.1 EST HUMAN 13862 26311 3.6 6.0E-84 BE83864.1 EST HUMAN 14804 27322 3.46 6.0E-84 BE83864.1 EST HUMAN 17824 30275 4.27 6.0E-84 AC776574.1 EST HUMAN 18000 31192 1.91 6.0E-84 AC6863.2 EST HUMAN 18507 31192 1.14 6.0E-84 AC687339.1 EST HUMAN 20409 33279 3.48 6.0E-84 BE810371.1 EST HUMAN 20409 33579 3.48 6.0E-84 BE70371.1 EST HUMAN 13295 25720 1.08 6.0E-84 BE70371.1 EST HUMAN 1527 34023 2.37 6.0E-84 AC382811.1 BST HUMAN 15527 1.08 6.0E-84 AC167678.1 BST HUMAN 15524 35078 0.49 6.0E-84 AC167678.1 BST HUMAN 23663 36708 2.69 </td <td>3799</td> <td></td> <td></td> <td>3.73</td> <td>7.0E-84</td> <td></td> <td>EST_HUMAN</td> <td>601676023F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3958853 5'</td>	3799			3.73	7.0E-84		EST_HUMAN	601676023F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3958853 5'
13862 26311 3.6 6.0E-84 BE83864.1 EST_HUMAN 14804 27322 3.46 6.0E-84 AA776574.1 EST_HUMAN 17824 30275 4.27 6.0E-84 R05859.1 EST_HUMAN 18000 30275 4.27 6.0E-84 AC76574.1 EST_HUMAN 18507 31191 1.14 6.0E-84 AR97339.1 EST_HUMAN 20409 33279 3.48 6.0E-84 11426718 NT 20409 33579 3.48 6.0E-84 AT162718 NT 20409 33579 3.48 6.0E-84 AT162718 NT 20409 33579 3.48 6.0E-84 AT162718 NT 41527 1.33 6.0E-84 AT162718 NT 418974 31708 0.49 6.0E-84 AT162748 NT 418974 31708 0.49 6.0E-84 AT162748 NT 23754 33811 2.77 6.0E-84 AT1627678	1327			3.6	6.0E-84		EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo saplens cDNA
14804 27322 3.46 6.0E-84 A4776574.1 EST_HUMAN 18000 1.91 6.0E-84 RO5859.1 EST_HUMAN 18000 1.91 6.0E-84 AC72863.2 EST_HUMAN 18507 31191 1.14 6.0E-84 11426718 NT 18507 31192 1.14 6.0E-84 11426718 NT 20409 33279 3.48 6.0E-84 11426718 NT 20409 33541 0.89 6.0E-84 AC38291.1 NT 20409 33543 0.89 6.0E-84 AC38291.1 NT 13296 25720 1.08 5.0E-84 AC38291.1 NT 14657 31708 0.49 5.0E-84 AC409718.1 NT 14657 31708 0.49 5.0E-84 AC409718.1 NT 23754 38811 2.77 5.0E-84 AC68257.1 NT 23754 38812 2.77 5.0E-84 AC68257.1 NT	1327			3.6	6.0E-84	BE838864.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo saplens cDNA
17824 30275 4.27 6.0E-84 R05859.1 EST HUMAN 18000 1.91 6.0E-84 AL042863.2 EST HUMAN 18561 31191 1.14 6.0E-84 AR897339.1 EST HUMAN 18507 31192 1.14 6.0E-84 BER10371.1 EST HUMAN 20409 33279 3.48 6.0E-84 BER10371.1 EST HUMAN 20409 335279 3.48 6.0E-84 BER10371.1 EST HUMAN 21049 335279 3.48 6.0E-84 BER701891.1 INT 21040 33527 0.0E-84 BER701891.1 INT 2105 5.0E-84 BER701891.1 INT 13295 256 5.0E-84 AR187678.1 EST HUMAN 23663 38708 2.56 5.0E-84 AR187678.1 INT 23754 38812 2.77 5.0E-84 AR187678.1 INT 23754 38812 2.77 5.0E-84 AR187678.1 INT 17645 28918 1.49 4.0E-84 AR058287.1 INT 1782 4.0E-84 AR0680501.2 INT	2297			3.45	6.0E-84	AA776574.1	EST_HUMAN	ae86a03.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971020 3'
18000 1.91 6.0E-84 AL042863.2 EST_HUMAN 18501 31192 1.14 6.0E-84 AR897339.1 EST_HUMAN 18507 31192 1.14 6.0E-84 AR897339.1 EST_HUMAN 20409 33279 3.48 6.0E-84 BER10371.1 EST_HUMAN 20549 33579 3.48 6.0E-84 BER10371.1 EST_HUMAN 20549 33579 3.48 6.0E-84 BER10371.1 EST_HUMAN 21326 25720 1.08 6.0E-84 BER703891.1 NT 15226 25720 1.08 6.0E-84 BER703189.1 NT 15527 34023 2.37 6.0E-84 AR105718.1 NT 15527 3602-84 AR105718.1 NT NT 23663 36708 2.56 5.0E-84 AR10578.1 NT 23754 36812 2.77 5.0E-84 AR032857.1 NT 13974 2691 6.0E-84 AR056201.2 NT 17645 29918 1.49 4.0E-84 AR06601.2 NT 17825 30184 0.61	5429			4.27	6.0E-84		EST_HUMAN	ye93a04.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:125262 5'
18561 30822 1.92 6.0E-84 AA897339.1 EST_HUMAN 18507 31192 1.14 6.0E-84 11426718 NT 20409 33279 3.48 6.0E-84 BER10371.1 EST_HUMAN 20409 33279 3.48 6.0E-84 BER10371.1 EST_HUMAN 20409 33541 0.89 6.0E-84 BE770199.1 EST_HUMAN 13295 25720 1.08 6.0E-84 BE770199.1 EST_HUMAN 1522 2572 6.0E-84 AR382811.1 EST_HUMAN 1524 31708 0.49 6.0E-84 AR167678.1 EST_HUMAN 23663 36708 2.56 5.0E-84 AR167678.1 EST_HUMAN 23754 36812 2.77 5.0E-84 AR1632857.1 NT 13974 25812 1.92 4.0E-84 AR1632857.1 NT 17645 25917 0.66 4.0E-84 AR16768001.2 NT 17825 30184 4.0E-84 AR167689.1 EST_HUMAN 1782 4.0E-84 AR16766901.2 NT 17649	5489			1.91	6.0E-84		EST_HUMAN	DKFZp434H0322_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434H0322 6'
18507 31191 1.14 6.0E-84 11426718 NT 20409 33279 3.48 6.0E-84 BE810371.1 EST_HUMAN 20409 33541 0.89 6.0E-84 BE810371.1 EST_HUMAN 20409 33541 0.89 6.0E-84 BE810371.1 EST_HUMAN 13295 25720 1.08 5.0E-84 AF082811.1 EST_HUMAN 15527 1.33 5.0E-84 AA167678.1 EST_HUMAN 23653 36708 2.56 5.0E-84 AA167678.1 EST_HUMAN 23754 38811 2.77 5.0E-84 AB032857.1 NT 23754 36812 2.77 5.0E-84 AB032857.1 NT 17648 25917 0.66 4.0E-84 AB032857.1 NT 17647 25918 1.49 4.0E-84 AF068001.2 NT 17825 30184 3.43 4.0E-84 AF008001.2 NT 17825 30347 0.61 4.0E-84 AF008001.2 NT	5780			1.92	6.0E-84		EST_HUMAN	el47g03.s1 Soares_NPL_T_GBC_S1 Home sapiens cDNA clone IMAGE:1460500 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
18507 31192 1.14 6.0E-84 11426718 NT 20409 33279 3.48 6.0E-84 BE810371.1 EST_HUMAN 20649 33541 0.89 6.0E-84 BE70381.1 EST_HUMAN 21123 34023 2.37 6.0E-84 BE70199.1 EST_HUMAN 13295 25720 1.08 5.0E-84 AA382811.1 EST_HUMAN 1557 1.33 5.0E-84 AA167678.1 EST_HUMAN 23663 36708 2.56 5.0E-84 AA167678.1 EST_HUMAN 23754 36813 2.77 5.0E-84 AB032857.1 NT 23754 36812 2.77 5.0E-84 AB032857.1 NT 13974 26832 1.92 4.0E-84 AB032857.1 NT 17647 28918 1.49 4.0E-84 AF089801.2 NT 17825 30184 3.43 4.0E-84 AF089801.2 NT 18103 30347 0.61 4.0E-84 AF082855.1 NT	5929			1.14	6.0E-84	11426718	Ā	Homo sapiens acety LDL receptor; SREC≂scavenger receptor expressed by endothelial cells (SREC), mRNA
20409 33279 3.48 6.0E-84 BE810371.1 EST_HUMAN 20649 33541 0.89 6.0E-84 AF038391.1 NT 21123 34023 2.37 6.0E-84 BE770189.1 EST_HUMAN 13295 25720 1.08 5.0E-84 AF109718.1 NT 15627 1.33 5.0E-84 AF109718.1 NT 16974 31708 0.49 6.0E-84 AF109718.1 NT 23663 36708 2.56 5.0E-84 AF109718.1 NT 23754 36811 2.77 5.0E-84 AR167678.1 EST_HUMAN 23754 36812 2.77 5.0E-84 AR032857.1 NT 13974 26432 1.92 4.0E-84 AR032857.1 NT 17546 26917 0.65 4.0E-84 AF068601.2 NT 17647 26918 1.49 4.0E-84 AF068601.2 NT 17825 30184 3.43 4.0E-84 AF028835.1 NT	5929			1.14	6.0E-84	11426718	.E	Homo sepiens acetyl LDL receptor; SREC≃scavenger receptor expressed by endothelial cells (SREC), mRNA
20849 33541 0.89 6.0E-84 AF038391.1 NT 21123 34023 2.37 6.0E-84 BE770189.1 EST_HUMAN 13295 25720 1.08 5.0E-84 AF109718.1 INT 15527 1.33 6.0E-84 AF109718.1 INT 15527 1.33 5.0E-84 AF109718.1 INT 23663 36708 2.56 5.0E-84 AF109718.1 INT 23754 36811 2.77 5.0E-84 AB032857.1 INT 23754 36812 2.77 5.0E-84 AB032857.1 INT 13974 26432 1.92 4.0E-84 AB032857.1 INT 17546 26917 0.66 4.0E-84 AF069601.2 INT 17825 30184 3.43 4.0E-84 AF068601.2 INT 18103 30347 0.61 4.0E-84 AF028835.1 INT	7973			3.48	6.0E-84	E810371.1	'با	PMO-LT0019-190600-004-F02 LT0019 Homo sapiens cDNA
21123 34023 2.37 6.0E-84 BE770189.1 EST_HUMAN 13295 25720 1.08 5.0E-84 AA382811.1 EST_HUMAN 15627 1.33 5.0E-84 AF109718.1 NT 18974 31708 0.49 6.0E-84 AF109718.1 NT 23663 36708 2.56 5.0E-84 AF109718.1 NT 23754 36811 2.77 5.0E-84 AB032857.1 NT 23754 36812 2.77 5.0E-84 AB032857.1 NT 13974 26432 1.92 4.0E-84 AB032857.1 NT 17646 26917 0.66 4.0E-84 AF069501.2 NT 17827 29918 1.49 4.0E-84 AF069501.2 NT 17828 30184 3.43 4.0E-84 AF0252835.1 NT	8230			0.89	•	F038391.1	Į.	Homo saplens pre-mRNA splicing factor (PRP16) mRNA, complete cds
13295 25720 1.08 5.0E-84 AA382811.1 EST_HUMAN 15627 1.33 5.0E-84 AF109718.1 NT 18974 31708 0.49 6.0E-84 AA167678.1 EST_HUMAN 23663 36708 2.56 5.0E-84 AA167678.1 EST_HUMAN 23754 36811 2.77 5.0E-84 AB032957.1 NT 23754 36812 2.77 5.0E-84 AB032957.1 NT 13974 26432 1.92 4.0E-84 AB032957.1 NT 17546 25917 0.66 4.0E-84 AF069501.2 NT 17647 29918 1.49 4.0E-84 AF069501.2 NT 17825 30184 3.43 4.0E-84 AF0252835.1 NT 18103 30347 0.61 4.0E-84 AF022835.1 NT	8688	L		2.37			EST_HUMAN	PMA-FT0054-160600-004-e10 FT0054 Homo saplens cDNA
15627 1,33 5.0E-84 AF109718.1 NT 18974 31708 0.49 5.0E-84 AA167678.1 EST_HUMAN 23663 36708 2.56 5.0E-84 AB032957.1 NT 23754 36812 2.77 5.0E-84 AB032957.1 NT 23754 36812 2.77 5.0E-84 AB032957.1 NT 13974 25632 1.92 4.0E-84 AB032957.1 NT 17546 25917 0.66 4.0E-84 AF069501.2 NT 17827 29918 1.49 4.0E-84 AF069501.2 NT 17825 30184 3.43 4.0E-84 AF0252835.1 NT 18103 30347 0.61 4.0E-84 AF022835.1 NT	734			1.08	5.0E-84		EST_HUMAN	EST98094 Testis I Homo sapiens cDNA 5' end
18974 31708 0.49 6.0E-84 AA167678.1 EST_HUMAN 23663 36708 2.56 5.0E-84 AB032967.1 NT 23754 36812 2.77 5.0E-84 AB032967.1 NT 23754 36812 2.77 5.0E-84 AB032967.1 NT 13974 26432 1.92 4.0E-84 AB032957.1 NT 17646 26917 0.66 4.0E-84 AF089501.2 NT 17647 26918 1.49 4.0E-84 AF089501.2 NT 17825 30184 3.43 4.0E-84 AA401649.1 EST_HUMAN 18103 30347 0.61 4.0E-84 AF022835.1 NT	2972			1.33	5.0E-84		NT.	Homo sapiens chromosome 3 subteloment region
23663 36708 2.68 5.0E-84 11428740 NT 23754 38811 2.77 5.0E-84 AB032957.1 NT 23754 38812 2.77 5.0E-84 AB032957.1 NT 13974 28912 1.92 4.0E-84 AB032957.1 NT 17646 28917 0.66 4.0E-84 AF069501.2 NT 17647 28918 1.49 4.0E-84 AF069501.2 NT 17825 30184 3.43 4.0E-84 AA401649.1 EST_HUMAN 18103 30347 0.61 4.0E-84 AF022835.1 NT	6417			0.49	5.0E-84		EST HUMAN	2q39e07.r1 Stratagene hNT neuron (#937233) Homo septens cONA clone IMAGE:632100 5' similar to TR:G483915 G483915 RETROTRANSPOSABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q. ;
23754 36811 2.77 5.0E-84 AB032957.1 NT 23754 36812 2.77 5.0E-84 AB032957.1 NT 13974 26432 1.92 4.0E-84 AI685321.1 EST_HUMAN 17646 29917 0.66 4.0E-84 AF069501.2 NT 17647 29918 1.49 4.0E-84 AF069501.2 NT 17825 30184 3.43 4.0E-84 AA401649.1 EST_HUMAN 18103 30347 0.61 4.0E-84 AF022835.1 NT	11298	L		2.56	5.0E-84	11428740	K	Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA
23754 36812 2.77 5.0E-84 AB032957.1 NT 13974 26432 1.92 4.0E-84 AI685321.1 EST_HUMAN 17646 29917 0.66 4.0E-84 AF069601.2 NT 17647 29918 1.49 4.0E-84 AF069601.2 NT 17825 30184 3.43 4.0E-84 AA401649.1 EST_HUMAN 18103 30347 0.61 4.0E-84 AF022835.1 NT	11392			277	5.0E-84		NT	Homo saplens mRNA for KIAA1131 protein, partial cds
13974 26432 1.92 4.0E-84 AI685321.1 EST_HUMAN 17646 29017 0.66 4.0E-84 A505928 NT 17547 29018 1.40 4.0E-84 AF069601.2 NT 17825 30184 3.43 4.0E-84 AA401649.1 EST_HUMAN 18103 30347 0.61 4.0E-84 AF022835.1 NT	11392	Ш		2.77	5.0E-84		NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
17646 29917 0.66 4.0E-84 4505928 NT 17547 29918 1.49 4.0E-84 AF069601.2 NT 17825 30184 3.43 4.0E-84 AA401649.1 EST_HUMAN 18103 30347 0.61 4.0E-84 AF022835.1 NT	1442				4.0E-84		EST_HUMAN	wa76c04.x1 Soares NPL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2302088 3' similar to SW :NRDC_HUMAN 043847 NARDILYSIN PRECURSOR;
17647 29918 1.49 4.0E-84 AF069601.2 NT 17825 30184 3.43 4.0E-84 AA401649.1 EST_HUMAN 18103 30347 0.61 4.0E-84 AF022835.1 NT	5038				4.0E-84		L	Homo sapiens polymerase (DNA-directed), alpha (70kD) (POLA2), mRNA
17825 30184 3.43 4.0E-84 AA401649.1 EST_HUMAN 18103 30347 0.61 4.0E-84 AF022835.1 NT	5037				4.0E-84	F069601.2	NT	Homo sepiens myosin light chain kinase Isoform 2 (MLCK) mRNA, complete cds
18103 30347 0.61 4.0E-84 AF022835.1 NT	5326			3.43	4.0E-84		EST_HUMAN	2u62a07.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:742648 6' similar to WP:F22B6.1 CE02195 GTP-BINDING ADP-RIBOSYLATION FACTOR;
	5513	ı	ij	0.61	4.0E-84	H	TN	Homo seplens multidrug resistance protein (MRP), exon 13

Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
18407	31073	1.83	4.0E-84	11386168 NT	N N	Homo saplens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
18407		1.83	4.0E-84	11386168 NT	NT.	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
19143		2.25	4.0E-84	AF059650.1	N.	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
20600	33486	16.23	4.0E-84	11421326 NT	N	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
21719		1.27	4.0E-84	4557526 NT	LN L	Home sapiens discs, large (Drosophila) homolog 2 (chepsyn-110) (DLG2) mRNA
21719		1.27	4.0E-84	_	Z	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
23136			4.0E-84	AB03295	Z	Homo sapiens mRNA for KIAA1130 protein, pertiel cds
12923	25341	2.03	3.0E-84	AF026200.1	ΤN	Homo sapiens Bach1 protein homolog mRNA, partial cds
13724		1.08	3.0E-84		<u>F</u>	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
14428	26926	1.83	3.0E-84	5453855 NT	N.	Homo sapiens pericentriolar material 1 (PCM1) mRNA
14466	26970	2.14	3.0E-84	AL096880.1	۲	Novel human mRNA containing Zinc finger C2H2 type domains
18125	28537	0.07	2 OF 94	A BOORDO 4	1	Hamo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,
16287		4 49	3.0E-84		Z	Companies cas)
			0.00		N	nonto septens A-linked juvenile retinoschisis precursor protein (XLKS1) mRNA, complete cds
23101		12.29	3.0E-84		EST_HUMAN	wu20d05x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2520585 3' similar to gb:L05083 60S RIBOSOMAL PROTEIN L18A (HUMAN);
14542		4.74	2.0E-84	BE695397.1	EST HUMAN	CM1-BT0795-190600-272-b08 BT0795 Homo sapiens cDNA
14542		4.74	2.0E-84	BE695397.1	EST HUMAN	CM1-BT0795-190600-272-b08 BT0795 Home saplens cDNA
15452		10.73	2.0E-84		N F	Homo sapiens myelin transcription factor 1-like (MYT1-1) mRNA, complete cds
15470		1.17	2.0E-84	X89211.1	Σ	H.sapiens DNA for endogenous retroviral like element
17356		5.54	2.0E-84		EST_HUMAN	601887664F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:4121727 5
17358		5.54	2.0E-84	ı	EST_HUMAN	601887664F1 NIH_MGC_17 Homo sapiens cDNA clane IMAGE:4121727 5
18369	30831	0.84	2.0E-84	BF511575.1	EST_HUMAN	UI-H-BI4-ach-a-02-0-UI.s1 NCI CGAP Sub8 Hamo sapiens cDNA clone IMAGE:30849833
18369	30832	0.84	2.0E-84	BF511575.1	EST HUMAN	UI-H-BI4-aci-a-02-0-UI.s1 NCI CGAP Sub8 Homo sablens cDNA clone IMAGE:3084963 31
19536	32320	0.98	2.0E-84	H63370.1	EST HUMAN	y58e11.s1 Soares fetal liver spleen 1NFLS Homo sapiens oDNA clone IMAGE:209324.31
2110		1.61	2.0E-84	AI298674.1	EST HUMAN	qm87c09.x1 NCI CGAP Lu5 Hamo saplens cDNA clone IMAGE:1895728.3'
22004	34831	1.2	2.0E-84	AU120280.1	EST_HUMAN	AU120280 HEMBB1 Homo saplens cDNA clone HEMBB1000339 6
24115	31001	2.04	2.0E-84	BF448000.1	EST_HUMAN	raes0a02.x1 Lupski sympathetic trunk Homo saplens cDNA clone IMAGE:4090251 3' similar to TR:Q9UGS3 Q9UGS3 DJ756G23.1;
24115	31002	2.04	2.0E-84	BF448000.1	EST HUMAN	nae30a02.x1 Lupski_sympathetic_trunk Homo saplens cDNA clone IMAGE:4090251 3' similar to TR:09UGS3 Q9UGS3 DJ756G23.1
12919	25337	1.78	1.0E-84	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete ods
13137	25547	8.97	1.0E-84	4507952 NT	E	Homo sapiens tyrosine 3-monocygenese/tryptophen 5-monocygenase activation protein, zeta polypeptide

							_			_							_		_	_		_			_		_						
Top Hit Descriptor	Homo seplens complement component 5 (C5), mRNA	am85b11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3'	801308006F1 NIH MGC 44 Homo satiens cDNA clone IMAGE:3828257 5	Homo saplens pericentriolar material 1 (PCM1), mRNA	Inw12e08.s1 NCI CGAP SS1 Homo septens cDNA done IMAGE-1239108 3	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21a22: seament 1/3	DKFZp434N03Z3_r1 434 (synonym: htes3) Hamo sapiens oDNA clane DKFZp434N03Z3_5	DKFZp434N0323 r1 434 (synonym: htes3) Hamo sapiens cDNA clone DKFZp434N0323 6	Homo saplens 959 kb contig between AML1 and CBR1 an chromosome 21a22; segment 1/3	Homo sapiens speckle-type POZ protein (SPOP), mRNA	uterine water channel≕28 kda erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 ntj	Novel human gene mapping to chomosome 13	Novel human gene mapping to chomosome 13	Novel human gene mapping to chomosome 13	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA	Homo saplens NGFLA binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA	Homo sepiens NGFLA binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA	Homo saplens nuclear transport factor 2 (placental protein 15) (PP15) mRNA	Homo sapiens ubiquitin specific protease 13 (Isopeptidase T-3) (USP13) mRNA	Homo saplens ubiquitin specific protease 13 (tsopeptidase T-3) (USP13) mRNA	Homo saplens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA	Homo saplens aconitase 2, mitochondrial (ACO2), mRNA	Homo saplens chromosome 21 segment HS210009	Homo sapiens nuclear protein Skip mRNA, complete cds	Homo sapiens nuclear protein Skip mRNA, complete cds	Human plasminogen gene, exon 7	Human plasminogen gene, exon 7	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA	Homo sapiens chromosome 21 segment H321C080	Homo sapiens chromosome 21 segment HS21C088	Homo saplens DKFZp434P211 protein (DKFZP434P211), mRNA	Homo sapiens ribosomal protein L27 mRNA, complete cds	Homo sapiens MSTP030 mRNA, camplate cds
Top Hit Database Source	N F	EST HUMAN	EST HUMAN	Į.	EST HUMAN	Ę	EST HUMAN	EST HUMAN	NT	Z	Ę	12	Į.	LN L	۲N	N	IN	NT	LN	TN	IN	NT	N	K	Ę	TN	N	F	N.	Z-	TN	¥	N
Top Hit Acession No.	11427631 NT	AA984379.1	BE392137.1	11427197 NT	AA720851.1	AJ229041.1	AL043314.2	AL043314.2	AJ229041.1	11434422 NT	S73482.1	AL049784.1	AL049784.1	AL049784.1	8393994 NT	11430846 NT	11430846 NT	5031984 NT	4507848 NT	4507848 NT	11417812 NT	11418185 NT	AL163209.2	U51432.1	U51432.1	M33282.1	M33282.1	7657020 NT	AL163280.2	AL163268.2		_05094.1	AF113210.1
Most Similar (Top) Hit BLAST E Vatue	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	9.0E-85	9.0E-85	9.0E-85	9.0E-85	9.0E-85	9.0E-85	9.0E-85	9.0E-85	9.0E-85	7.0E-85	7.0E-85
Expression Signal	1.5	2.54	2.94	1.81	3.02	8.04	3.62	3.52	2.21	76.0	4.1	1.48	1.46	1.94	2.8	0.65	2.03	2.44	1.95	1.95	2.35	4.12	1.26	3.13	3.13	1.16	1.16		1.24	1.08	1.96	5.8	10.09
ORF SEQ ID NO:		26308	27005	27165	28693	29350	29643	29644	29350	31488							33387			30441		30998		26083	26084					29871		26146	
Exon SEQ (D NO:	13301		14496	14842		16964		17263		18783					丄	_	_1		_[_		_ i		_1				_		IJ	23750
Probe SEQ ID NO:	740	1325	1980	2129	3751	4444	4749	4749	4983	6217	6504	7285	7285	7546	7967	88	8127	9719	9892	9892	11748	11867	8	1099	1099	1595	1595	1674	4288	4984	12450	1163	11388

	-	Π	T	T	Τ	Τ		T.	T	Т	Τ	Τ	Т	Τ	T	Τ	Τ	Τ	Τ	T	T	Ţ	Τ	Τ	Т		Т
Top Hit Descriptor	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA	Homo saplens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10). mBNA	Homo saplens chromosome 21 segment HS21C084	Homo saplens T-type calcium channel alpha1 subunit Alpha1 e isoform (CACNA1) mRNA commissio cds	601458646F1 NIH MGC 66 Hamo saplens cDNA clane IMAGE:3862402 5	601458648F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:3862402 57	Homo saplens mannosidase, beta A. Iysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds	Homo sapiens T-type calcium channel alpha1 subunit Alpha11-e isoform (CACNA1)) mRNA complete cds	602084730F1 NIH MGC 83 Homo saplens cDNA clone IMAGE:4249087 6	602084730F1 NIH MGC 83 Homo sepiens cDNA clane IMAGE:4249087 5'	ty84g01.x1 NCI_CGAP_Kid11 Homo septems cDNA clone IMAGE:2285808.31	RC1-BT0623-120200-011-c07 BT0623 Homo saplens cDNA	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6	ye53g09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE-121504 5	Homo sapiens F-box only protein 24 (FBXO24), mRNA	Home sapiens F-box only protein 24 (FBXO24), mRNA	Homo saplens lacrimal prolline rich protein (LPRP), mRNA	Homo sapiens met proto-cncogene (hepatocyte growth factor receptor) (MET), mRNA	Homo saplens KIAA0793 gene product (KIAA0793), mRNA	Homo sapiens KIAA0793 gene product (KIAA0783), mRNA	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)	Homo saplens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein (KIAA0621), mRNA	Homo saplens DENN mRNA, complete cds	Homo sapiens phosphalipase C. epsilon (PLCE), mRNA	Homo saplens Ran GTPase activating protein 1 (RANGAP1), mRNA	Homo sapiens KJAA0929 protein Max2 Interacting nuclear larget (MINI) september 1880 HAA0929 HRNA	Homo saplens Intersectin 2 (SH3D1B) mRNA complete cds
Top Hit Database Source	NT	Į	LZ.	LN	EST HUMAN	EST HUMAN	ŇT	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	L	¥	Z	NT	TN	FX	Z.	Į	N-	N	L	F	NT
Top Hit Acessian No.	11438573 NT	11438573 NT	AL 163284.2	6.0E-85 AF211189.1	Γ	F035674.1	F224669.1	6.0E-85 AF211189.1	Γ	F677910.1	4.0E-85 AI828119.1	E079263.1	-096157.1	7495.1	11024695 NT	11024695 NT	11436001 NT	11422024 NT	7662309 NT	7662309 NT	3.0E-85 AJ404468.1	11416870 NT	144953.1	11430889 NT	11418177 NT	7657266 NT	F248540.1
Most Similar (Top) Hit BLAST E Value	6.0E-85	6.0E-85	5.0E-85	6.0E-85	5.0E-85	5.0E-85	6.0E-85	6.0E-85	4.0E-85	4.0E-85 B	4.0E-85	4.0E-85 B	3.0E-85	3.0E-85 TE	3.0E-86	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85 (3.0E-85	3.0E-85	2.0E-85	2.0E-85 A
Expression Signal	2.76	2.78	3.18	0.65	1.6	1.6	1.75	4.09	1.53	1.53	0.54	1.51	0.83	3.44	0.93	0.93	0.74	0.65	6.02	6.02	7.47	0.84	1.29	3.18	2.15	-	2.31
ORF SEQ ID NO:	36588	36589	27258		30718	30719	36333		31760	31751	32661		26317		29855		30841	31685	31734	31735		33180	33877	34665		•	26052
Exon SEQ ID NO:	23548	23548	14737	16981	18292	18292	23331	16981	19017	19017	19843	22814	13867	14289	17478	17478	18243	18950	19003	19003	19820	20314	20977	21758	24439	13539	13611
Probe SEQ ID NO:	11168	11168	2228	4461	90/9	5708	10899	12529	6461	6461	7231	10414	1331	1762	4067	4967	2657	6393	6447	6447	7363	7875	8542	9326	12407	987	1065

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1451	13983	28443	6.1	2.0E-85	5174775 NT	Ę	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1451	13983		6.1	2.0E-85	5174775 NT	F	Homo sepiens apolipoprotein C-II (APOC2) mRNA
2137			1.36		U10525.1	N N	Human DNA polymerase beta gene, exons 12 and 13
2782	1		7.2	2.0E-85	7657468 NT	NT	Homo sepiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
4357	16879	29262	6.28	2.0E-85	4505880 NT	¥	Homo sepiens plasminogen (PLG) mRNA
4982	17493	29870	1.27		AL163284.2	Ę	Homo sapiens chromosome 21 segment HS21C084
0530	21945	84848	1 48	200	A OCROBATIA	ECT LIMANI	wi87h08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398431 3' similar to contains element MSR1 reneilling element:
9798					1	EST HUMAN	wd49d03 x1 Soares NFL T GBC S1 Homo seniens cDNA clone IMAGE:2331461 3'
10217	L					EST HUMAN	wm94d12.x1 NCI_CGAP_UI2 Homo saplens cDNA clone IMAGE:2443607 3'
2183	14694		5.84	1.0E-85	BE794306.1	EST_HUMAN	601591416F1 NIH_MGC_7 Hamo sapiens cDNA clone IMAGE:3945818 5'
2291	14798	27316	4.8	1.0E-85	BE618392.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'
2201		27317	4.8			EST HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'
8383			0.52	1.0E-85	BE062951.1	EST_HUMAN	MRO-BT0264-221199-002-f03 BT0264 Homo sapiens cDNA
9885	22288	35229	2.16	1.0E-85	BE257917.1	EST_HUMAN	601109738F1 NIH_MGC_16 Homo sepiens cDNA clone IMAGE:3350553 5'
10702					AA778785.1	EST_HUMAN	2/45/03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10702		36123	3.76	1.0E-86		EST_HUMAN	245703.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sepiens cDNA clone IMAGE:453245 3'
10778				1.0E-85	BF311552.1	EST_HUMAN	801897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
10778			2.26	1.0E-85	BF311552.1	EST_HUMAN	801897003F1 NIH_MGC_19 Hamo sepiens cDNA clone IMAGE:4126440 6'
11753				1.0E-85	11417862	LN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12023		30952	4.72	l	11417862 NT	TN	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA
1460				ı	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Hamo sapiens cDNA clone IMAGE:2967690 5
6439	. 1		0.71	8.0E-86	11424140 NT	NT	Homo sapiens similar to CDC28 protein kinase 1 (H. sapiens) (LOC63041), mRNA
11424			1.72	8.0E-86	4503224 NT	NT	Homo sapiens cytochrome P450, subfamily IIF, polypeptide 1 (CYP2F1) mRNA
234				•	7662247 NT	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
98	_				AA860801.1	EST_HUMAN	aj88f08.s1 Soaras_parathyrold_tumor_NbHPA Homo saplens cDNA clone IMAGE:1403559 3'
961			1.23	7.0E-86	AA860801.1	EST_HUMAN	aj88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6510	ı		1.19	7.0E-86	8889968	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6510	- 1			7.0E-88	B889868	NT	Homo saplens tumor endothellal marker 7 precursor (TEM7), mRNA
7394	_ [7.55	7.0E-86	11421737	NT	Homo sepiens Text (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
9170	l	34512	3.95	7.0E-86	L38557.1	NT	Homo sapiens galactocerebrosidase (GALC) gene, exon 16
9834	_1			7.0E-86	5453997 NT	N	Homo sepiens RAN binding protein 7 (RANBP7), mRNA
9871				7.0E-86	11526307 NT	N-	Homo sapiens DiGeorge syndrome critical region gene 6 (DGCR6), mRNA
10742	23180	36164	2.64	7.0E-86	11417012 NT	Z	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA

							6
Probe SEQ (D NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10742	23180	36165	2.64	7.0E-86	11417012 NT	H	Hamo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
1326	13861	28309	1.95	6.0E-86	4606492 NT	N-	Hamo sapiens oxoglutarate dehydrogenase (lipoemide) (OGDH) mRNA
218	12820	25238	1.6	4.0E-88	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Hano sapiens cDNA clane IMAGE:3458830 5'
යෙන	18897	31628	12.45	4.0E-86		EST_HUMAN	801176865F1 NIH_MGC_17 Hamo sapiens cDNA clone IMAGE:3531953 5'
11008	12820	25238	3.7	4.0E-86	BE647173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapisns cDNA clone IMAGE:3458830 5'
4306	16831	29220	0.59	3.0E-86	BE867703.1	EST_HUMAN	601443262F1 NIH_MGC_65 Home saplens cDNA clone IMAGE:3847455 61
5863		31117	6.37	3.0E-86	AW340948.1	EST_HUMAN	xx82h12.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:2871719 3'
. 8823	21257	34162	1.2	3.0⊑-86	AV722329.1	EST_HUMAN	AV722329 HTB Hamo saplens cDNA clone HTBBSD04 5'
10192	22593	35559	4.47	3.0E-86	BE886479.1	EST HUMAN	6015096996F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
10192	22593	35560	4.47	3.0E-86	BE886479.1	EST_HUMAN	6015096995F1 NIH_MGC_71 Hamo saplens cDNA clone IMAGE:3911303 5
11185	22837	35808	4.55	3.0E-86	AI669240.1	EST_HUMAN	tu18b02x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2251371 3'
11267	23633	36684	2.04	3.0E-88	AV690469.1	EST HUMAN	AV690469 GKC Homo sapiens cDNA clone GKCBSE02 5
11721	24755		1.61	3.0E-86	BE410354.1	EST HUMAN	601302333F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3636763 5'
280	12877	26293	2.11	20E-86	AA306264.1	EST HUMAN	EST177232 Jurkat T-cells VI Homo saplens cDNA 6' end
431	13005		2.8	20E-86	AL163203.2	LN	Homo sapiens chromosome 21 segment HS21 C003
1221	13761	26205	2.71	20E-86	N58977.1	EST HUMAN	yz19a08.r1 Soares_multiple_sclerosis_2NbHMSP Homo saptens cDNA clone IMAGE:283478 5
2097	14611	27130	4.13	20E-86	9635487	N	Human endogenous retrovirus, complete genome
3393	16939	28351	1.67	2.0E-86	AW966142.1	EST_HUMAN	EST378215 MAGE resequences, MAGI Homo sapiens cDNA
3745	16284	28687	2.76	20E-88	AF156776.1	N.	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete ods
3745		28688	2.76	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
4052			2.62		AW616742.1	EST_HUMAN	hd87g08.x1 NCI_CGAP_GC8 Hamo sapiens cDNA clone IMAGE:2916542 3'
4841				2.0E-86	AF056490.1	TN	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
5180			2.67	20E-86	4505778 NT	NŢ	Horno sapiens phosphorylase kinase, alpha 1 (muscle) (PHKA1), mRNA
6160	18728	31431		20E-88	Z16411.1	IN	H.sapiens mRNA encoding phospholipase c
6160	18728	31432	211.07	2.0E-86	216411.1	LN L	H.sapiens mRNA encoding phospholipase c
7507	24625	32512	1.1	2.0E-86	11419429 NT	FN	Homo sepiens similar to ectonucleotide pyrophosphalasse/phosphodiesterase 3 (H. sepiens) (LOC63214), mRNA
8023	21485	34396	2.42	2.0E-86	11437135 NT	FN	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
9063	21485	34397	2.42		11437136 NT	F	Homo sapiens butyrobetaine (gamma), 2-oxogiutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
9280			1.5	2.0E-86	10863876 NT	TN	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
8563	21886					NT	Homo saplens chromosome segregation 1 (yeast homolog)-like (CSE1L), mRNA
10338	_	35708	2.97	20E-86	11545846 NT	FX	Homo sapiens basic-helix-toop-helix-PAS protein (NPAS3), mRNA

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Probe SEQ ID NO:	Econ SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1985	14483	26992	1.88	4.0E-87	AB007925.1	F	Homo saplens mRNA for KIAA0456 protein, partial cds
							y/80f10.r1 Scares placenta NbZHP Homo saplens cDNA clone IMAGE:145679 5' similar to contains Alu
2004	14520	27031	1.25	4.0E-87	R78133.1	EST_HUMAN	repetitive element
2004	14520	27032	125	4 0F.87	P78499 4	NAMI IL TOT	y80f10.r1 Sogres placenta NbZHP Homo sapiens cDNA clone IMAGE:145579 6' similar to contains Atu
2322			1.86	4.0E-87	7706299		Homo sanians CGL60 pontain (1 OCS4R28) mRNA
2322						Þ	Homo saplens CGI-60 protein (LOC51628), mRNA
3441	4 FOR R	28402				<u> </u>	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4
5703	L	1	7.5		000324	SWISSPROT	(WILL 14) IIINNY FTS-REI ATED PROTEIN 24 (FTS TRANS) OCATION VABIANT 3)
6020			1.27	4.0E-87	1,85429.1	LN LN	Human transcription factor NEATA2 mRNA complete cite
	L	L					TCRAPTE4031 Padiatric pre-B cell souths humbhohlastic leukemia Bauker-BGSC amisort=TCBA Home somione
6351	18909		4.26	4.0E-87	BE247284.1	EST HUMAN	CON terror of action professional profession of the contraction of the
8206	20626	33513			11425291	LN LN	Homo saplens KIAA1072 protein (KIAA1072), mRNA
8206			0.67	4.0E-87	11425291 NT	F	Homo sapiens KIAA1072 protein (KIAA1072), mRNA
8330			0.64	4.0E-87	L48524.1	Z	Homo saplens tuberin (TSC2) gene, exon 10
10942	_		6.2	4.0E-87	M60678.1	N-	Human von Willebrand factor pseudogene corresponding to exone 23 through 34
10979			1.77	4.0E-87	AB040537.1	LN	Homo sapiens DDX10 mRNA for RNA helicase, complete ods
10979					AB040537.1	LX LX	Homo saplens DDX10 mRNA for RNA helicase, complete cds
12131				4.0E-87	11417862 NT	F	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12131	_ [30583		4.0E-87	11417862 NT	LN	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA
12304			25.1	4.0E-87	11417812 NT	F	Homo saplans purinergio receptor P2X-like 1, crphan receptor (P2RXL1), mRNA
2735	\perp	27737	3.11	2.0E-87	4886420 NT	L	Homo saplene high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
2802			0.97	2.0E-87	BF327920.1	EST_HUMAN	QV0-BN0148-050600-254-s03 BN0148 Homo saplens cDNA
3786			0.9	2.0E-87		EST_HUMAN	AU116935 HEMBA1 Hamo sapiens cDNA dane HEMBA1000307 5'
4985			12		BF376311.1	EST_HUMAN	CM0-TN0038-150900-552-h08 TN0038 Homo saplens cDNA
6049			0.71	2.0E-87	BE175478.1	EST_HUMAN	RC5-HT0580-200300-031-G04 HT0580 Homo sepiens cDNA
5930			8.69	2.0E-87	BE734190.1	EST_HUMAN	601569041F1 NIH_MGC_21 Homo septens cDNA clane IMAGE:3843730 5'
2930	J	31194	8.69	2.0E-87	BE734190.1	EST_HUMAN	601568041F1 NIH_MGC_21 Homo sepiens cDNA clone IMAGE:3843730 5'
6656	_]		3.94	2.0E-87	BE567193.1	EST_HUMAN	601341383F1 NIH_MGC_63 Homo seplens cDNA clone IMAGE:3683348 5
7069			0.83	2.0E-87	N48128.1	EST_HUMAN	w21e07.r1 Soares fetal liver spleen 1NFLS Homo seplens cDNA clone IMAGE:243398 5'
7165	_]	ļ	0.74		AV654143.1	EST_HUMAN	AV654143 GLC Homo saplens cDNA clone GLCDSG043'
7617			1.31	2.0E-87	BE294432.1	EST_HUMAN	601176032F1 NIH_MGC_17 Homo sepiens cDNA clone IMAGE:3531511 5
7674	20120	32975	0.81	2.0E-87	11433046 NT	NT	Homo saplens hect domain and RLD 2 (HERC2), mRNA

Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
9356	21788	34697	3.77	6.0E-88	AF003528.1	Z	Homo sapiens X-linked anhidroitio ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1804	14327		1.54	5.0E-88	7661887 NT	N	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2576	15072	27591	4.51	5.0E-88	N89399.1	EST HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo saplens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
2956		27931	0.91	5.0E-88	AF114488.1	N	Homo saplens Intersectin short isoform (ITSN) mRNA, complete cds
2968	15523	27944	0.67	5.0E-88	AF114488.1	Ę	Homo saplens Intersectin short Isoform (ITSN) mRNA, complete ods
2968	15523	27945	0.67	5.0E-88	AF114488.1	NT.	Homo sapiens intersectin short isdorm (ITSN) mRNA, complete cds
3367	15913		. 2.88	5.0E-88	Al693217.1	EST HUMAN	wd88h08.x1 NCI_CGAP_Lu24 Homo eaplens cDNA clone IMAGE:2336799 3' similar to contains Atu repetitive element:contains element MER22 MER22 repetitive element:
3518	16061	28483	0.67	6.0E-88	AF114488.1	1	Homo saplens intersectin short isoform (ITSN) mRNA, complete cds
7153	19866	32687	2.7	5.0E-88		EST HUMAN	ym06b10.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:47129 6
8583		33917	1.9	5.0E-88	2	Ε	Homo saplens chromosome 21 segment HS21C084
11866			1.27	5.0E-88	7661887 NT	L L	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
1361	13896	26352	1.58	4.0E-88	BF091229.1	EST HUMAN	PM1-TN0028-050900-004-f10 TN0028 Hamo saplens cDNA
1361	13896	26353	1.58	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Hamo saplens cDNA
7692		32993	1.31	4.0E-88	11416585 NT	LN.	Homo seplens transforming growth factor, beta-induced, 68kD (TGFBI), mRNA
11244	\perp	38654	2.67	4.0E-88	7661947 NT	TN	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11244		36655	2.67	4.0E-88	7661947 NT	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
762		26739	1.07	3.0E-88	11545800 NT	LN L	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
1788			1.59	3.0E-88	4508020 NT	۲	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
2801	15456	27883	8.04	3.0E-88	N66951.1	EST_HUMAN	za48f12.s1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:295823 3'
4267	16782	29164	0.88	3.0E-88	4501912 NT	NT.	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4257	16782	29165	0.88	3.0E-88	4501912 NT	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4514	17032		3.9	3.0E-88	11429300 NT		Homo septens hypothetical protein FLJ20220 (FLJ20220), mRNA
5454	17949		0.95	3.0E-88	Z21378.1	EST_HUMAN	HSAAAEAWO TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test346 (b)
5552	18142	30502	2.77	3.0E-88	11429567 NT		Homo saplens valosin-containing protein (VCP), mRNA
5852	J	31103	4.96	3.0E-88	TN 8888888	Į.	Homo saplens polycythemia rubra vera 1: cell surface receotor (PRV1). mRNA
5975	_]	31236	4.02	3.0E-88	11420697 NT	k	Homo sapiens v-ral simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
8475		31767	0.67	3.0E-88	11417370 NT	F	Homo sapiens Interleukin 13 (IL13), mRNA
6752	24614	32059	0.83	3.0E-88	11419210 NT	Į.	Homo saplens activator of S phase kinase (ASK), mRNA
6752	24614	32060	0.83	3.0E-88	11419210 NT	Į.	Homo sapiens activator of S phase kinase (ASK), mRNA
7497	19701	32500	16.31	3.0E-88	AF279285.1	N	Homo sapiens putative anion transporter 1 mRNA, complete cds
8053	20485	33360	6.23	3.0E-88	11436400 NT	NT	Homo sapians retinoblastoma-binding protein 2 (RBBP2), mRNA

			_		_	_			_	_		_		_	_			_	_						_	_				_		_
Top Hit Descriptor	H.saplens CLN3 gene, complete CDS	Homo sapiens plastin 3 (T isoform) (PLS3), mRNA	Homo sapiens plastin 3 (T isoform) (PLS3), mRNA	Homo saplens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA	Human 65-kilodalton phosphoprotein (p65) mRNA, complete cds	H.saplans Wee1 hu gene	H.saplens Wee1 hu gene	Homo sapiens mRNA for KIAA0823 protein, partial cds	Homo sapiens mRNA for KIAA0823 protein, partial cds	Human aldose reductase (AR) gene, segment 2	Human gamma-glutamy transpeptidese mRNA, complete cds	Human aconitate hydratase (ACO2) gene, exon 2	Homo sapiens Inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA	Homo sapiens ublquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA	Homo sapiens HSPC159 protein (HSPC159), mRNA	Homo sapiens mRNA for KIAA0406 protein, partial cds	Homo sapiens mRNA for KIAA0406 protein, partial cds	Hamo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens oDNA clone TCBAP0383	TCBAP2E0383 Pediatrio pre-B cell acute lymphoblactic leukemia Baylor-HGSC project=TCBA Homo sapiens	cDNA clone TCBAP0383	QV3-NT0022-080600-219-g03 NT0022 Homo sepiens cDNA	EST388290 MAGE resequences, MAGN Homo sapiens cDNA	qh17b06x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clane IMAGE:1844915 3'	w86e11.r1 Scares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:259148 5:	Shind DOY: THE DOMEST TO STATE OF THE STATE	Homo sapiens PAKZb protein (PAKZb), mKNA	Homo saplens PXR2b protein (PXR2b), mRNA	Homo sapiens PXR2b protein (PXR2b), mRNA
Top Hit Database Source	F	누	NT	Ę	NT	NT	TN	LN	IN	IN	NT .	NT.	NT	N-	F	TN	N	F	F	¥	F	EST HUMAN		EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	MANUEL TOO		Z	Ę	L
Top Hit Acession No.	39832.1	7549808 NT	7549808 NT	11420754 NT	02923.1	(62048.1	(82048.1	B020830.1	\B020630.1	A59783.1	05235.1	187927.1	5803114 NT	4508124 NT	4507788 NT	4507788 NT	7661817 NT	AB007866.2	\B007866.2	6806918 NT	6806918 NT	BE244323.1		BE244323.1	3E762749.1	4W976181.1	AI217359.1	- 4.H Co. H	100100	1/066/0 N	7706670 NT	7706670 NT
Most Similar (Top) Hit BLAST E Value	7.0E-89.X	7.0E-89	7.0E-89	7.0E-89	7.0E-89	7.0E-89	7.0E-89	7.0E-89	7.0E-89	7.0E-89	7.0E-89	7.0E-89	6.0E-89	6.0E-89	6.0E-89	6.0E-89	6.0E-89	6.0E-89	6.0E-89	6.0E-89	6.0E-89	6.0E-89		5.0E-89	4.0E-89	3.0E-89	3.0E-89	II C	3.05-08	2.0E-89	2.0E-89	2.0E-89
Expression Signal	1.28	0.85	0.85	1.79	1.65	1.17	1.17	1.57	1.57	3.29	1.31	1.25	0.99	1.07	1.89	1.89	0.82	3.26	3.26	0.76	0.76	2.72		2.72	0.65	1.83	1.37	a c	0.7	0.80	0.85	0.66
ORF SEQ ID NO:	30693	31968	31969	33303	34331	35765	35768	35779	35780	36452				27166	27353	27354	28470	9292	29577	30212		30070		30071	33411	27800	32876	6 6 0 3 6	floor			26425
Exan SEQ ID NO:	18272	19221	19221	20436	21420	22794	22794		22803	23434	1	24548	13595	14632	14839	14839	16049	17189	17199	17855	17855	. 17707		17707	20534	15387	20029	OCUCC	L	88871	1	12899
Probe SEQ ID NO:	2687	6873	6299.	8003	8987	10394	10394	10403	10403	11006	12545	12566	1049	2119	2332	2332	3506	4683	4683	5356	6356	5204		5204	8108	2831	7580	40582		131	134	425

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
425	12899				7706670 NT	NT	Hamo sapiens PXR2b protein (PXR2b), mRNA
548	1 1	25529	0.82	2.0E-89 A	B037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2835	15391	27804	1.78	2.0E-89 A	(1222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element;
3538	Ĺ	28499	0.87	2.0E-89	A759149.1	EST HUMAN	ah70e03.s1 Soares_testis_NHT Homo saplens cDNA clone 1320988 3'
3638	16081	28500	0.87	2.0E-89	A759149.1	EST_HUMAN	ah70e03.s1 Soares_testis_NHT Homo saplens cDNA clone 1320988 3'
4164	16691	29077	1.37	2.0E-89 /	F089897.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial ods
4170	16697	29088	5.04	2.0E-89 X	58742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4170	16697	29087	5.04		58742.1	NT	H.saplens HCK gene for tyrosine kinase (PTK), exons 10-11
4371	16893	29274	52.0		L163203.2	NT	Homo saplens chronosome 21 segment HS21C003
4534	17052				AJ007378.1	NT .	Homo saplens GGT gene, excn 5
5117	17824	98682				NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
6597	18185		1.56		BE641744.1	EST_HUMAN	601065996F1 NIH_MGC_10 Homo saptens cDNA clone IMAGE:3452423 51
5741	18323	30759	3.57	2.0E-89	AB007546.1	NT	Homo sapians gane for LECT2, complete cds
6072	18644	31339	1.54	2.0E-89	J03985.1	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
6527	18079	31818	1.2.0	2.0E-89	AL163285.2	NT	Homo saplans chromosome 21 segment HS210085
8203	20624	33511	5.67	2.0E-89	U81004.1	NT	Human GT24 (GT24) mRNA, partial cds
8587	21022	33923			11428801 NT	TN	Homo sapiens solute carrier family 24 (sodium/potessium/calcium exchanger), member 2 (SLC24A2), mRNA
8944	L		0.92	2.0E-89	AJ245503.1	TN	Homo saplens partial mRNA for PEX5 related protein
11130	23582	36623	8.79	2.0E-89	11434411 NT	NT	Homo saplens Integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11222	Ш				5729897 NT	-FN	Homo saplens hect domain and RLD 2 (HERC2), mRNA
11320	23684	36733		2.0E-89	11433673 NT	Į.	Homo sepiens cell edhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
11439	<u> </u>		2.63		U10692.1	뒫	Human MAGE-7 antigen (MAGE7) pseudogene, complete cds
11325	<u> </u>				BF186052.1	EST_HUMAN	hr81d09.xt NCI_CGAP_Ktd11 Homo sepiens cDNA clone IMAGE:3134897 3' struiter to TR:054778 054778 SCLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
11325	23689		5.04		BF196052.1	EST_HUMAN	hr81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMACE:3134897 3' similar to TR:054778 054778 SCLUTE CARRIER FAMILY 22 -LIKE 2 PROTEIN ;
8798		34139	1.28	9.0E-90	AL163246.2	L	Homo saplens chromosome 21 segment HS21C048
8788		34140		9.0E-90	AL163246.2	TN	Homo saplens chromosome 21 segment HS21C046
1089	13635	5 26073	2.71	8.0E-90	AL163246.2	F	Homo saplens chromosome 21 segment HS21 C046

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1090	13635	26073	2.63	8.0E-90	8.0E-90 AL163246.2	Į.	Homo sapiens chromosome 21 segment HS21Chas
1362	15307		4.56	8.0E-90	BE670561.1	EST HUMAN	7636708.x1 NCI CGAP 1.24 Homo gapliens cDNA clara MACE 2204 teo 21
1362	15307	26356	4.56	8.0E-90 BE	BE670561.1	EST HUMAN	7e3608.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3284583 3
10487	22937	35915	1.7	8.0E-90 A	AI222095.1	EST_HUMAN	999608.x1 Sogres, NFL_T_GBC_S1 Homo seplens cDNA clone IMAGE:1843022.3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN):corntains Alti renefittive element
10487	22937	35916	1.7	8.0E-90 A	A1222095.1	EST_HUMAN	999608x1 Sogres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HIMAN) contains a line concentration of the
859	13415		3.82	7.0E-90	7.0E-90 AF223391.1	IN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partiel cds, alternatively soliced
8949	21382		2.09	7.0E-90	7.0E-90 AA782977.1	EST HUMAN	at63d08.s1 Soares testis NHT Hamp seplens cDNA clane 13775673 9
8317	21749	34657	2.4	7.0E-90	7.0E-90 BE962525.2	EST HUMAN	601656837R1 NIH MGC 68 Homo serviews cDNA close 1000 200 21
8317	21749	34658	2.4	7.0E-90	7.0E-90 BE962525.2	EST HUMAN	601655837R1 NIH MGC 66 Homo seplens CDNA clone IMAGE 3855824 3
10141	22542	35510	2.42	7.0E-90	7.0E-90 H68849.1	EST HUMAN	Y88604.st Soares fetal liver splean 1NRLS Homo sapiens cDNA done IMAGE:212190 3's Imilar to SP:C1TC HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE CYTORIA SAMIC.
10141	22542	35511	2.42	7.0E-90	7.0E-90 H68849.1	EST HUMAN	Y86604.s1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA fetal IMAGE:212160 3's similar to SP:C1TC HJMAN P14585 C4-TETRAHYDROCE ATE SACTUAGE OFFICE ATENTIALS
10344	22744	35711	0.91	7.0E-90	-	EST HUMAN	602071208F1 NCI CGAP Brink4 Home saniens child Appe MAGE 4244257 E
3028	16583	27993	2.15	6.0E-90		FN	H. sapiens ECE-1 gene (exp. 6)
302B	15583	27994	2.15	6.0E-90		L	H.sapiens ECE-1 gene (excn 6)
4244	16769	29155	8.87	6.0E-90	TN 8922398	Į	Homo sapiens hypothetical protein FLJ10388 (FLJ10388) mRNA
4244	16789	29156	8.87	6.0E-90	TN 8922398	LN	Homo saplens hypothetical protein FLJ10388 (FLJ10388) mRNA
6285	18847	31566	3.37	6.0E-90 U	77700.1	NT	Homo saplens HsGCN1 mRNA, partial cds
6285	18847	31567	3.37	8.0E-90 U	77700.1	LN L	Homo saplens HsGCN1 mRNA, partial ods
8872	21306	34217	3.65	6.0E-90	4504794 NT	LN	Homo sapiens Inositol 1.4.5 triphosphate receptor fune 3 (170R3) mRNA
8872) 3 3 3	34218	3.65	6.0E-90	4504794 NT	LN LN	Homo sapiens inositol 1.4.5-triphosphate receptor, type 3 (170R3) mRNA
129	12764		23.82	5.0E-90	2	TN	Homo sablens TCL6 gene. excn 1-10b
1223	13763	26207	2.94	5.0E-80	5.0E-80 U80226.1	Z	Human gamma-aminobutwic acid transaminasa mRNA partial cde
1708	707	7,000					9998c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131
Og /	17541	20814	0.92	5.0E-90 A	222095.1	EST_HUMAN	GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN) contains after menetitive element

Probe SEQ ID NO:	Exan SEQ (D NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Aœsston No.	Top Hit Database Source	Top Hit Descriptor
1796	14321	26815	CE:0		6.0E-90 AI222095.1	EST_HUMAN	qg98c08.xf Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022.3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element:
2468	14969	27482	1.6	5.0E-90 A	F114487.1	N	Homo saplans intersectin long isoform (ITSN) mRNA, complete cds
4578			12.38	6.0E-90	4508354 NT	Į.	Homo sapiens pregnancy-zone protein (PZP) mRNA
4598	17114	29502	0.68			FN	Homo sapiens chromosome 21 segment HS21C001
4652			1.37	5.0E-90	5.0E-90 AA705222.1	EST_HUMAN	282g10.s1 Soares_fetal_liver_splean_1NFLS_S1 Homo septens cDNA clone IMAGE:4614423'
4652		29549	1.37	5.0E-90	5.0E-90 AA705222.1	EST_HUMAN	282g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
5858	18437	31112	3.29	6.0E-90	16411.1	N	H.saplens mRNA encoding phospholipase c
5876	18455		0.61	€.0E-90	F008915.1	TN	Homo sapiens EVi5 homolog mRNA, complete cds
5963		31225	1.2	L	B015617.1	TN	Homo sapiens ELKS mRNA, complete cds
6046	18437	31112	2.36	2 06-30'9	16411.1	IN.	H.sapiens mRNA encoding phospholipase c
7109	19642	32437	0.76		9910365 NT	LN L	Homo saplens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7109	19842	32438	0.78	5.0E-90	9910365 NT	N-	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7661	20107	32928	1.53		.F113708.1	LN TN	Homo saplens angiopoietin 4 (ANG4) mRNA, partial cds
7661			1.53	6.0E-90	F113708.1	IN	Homo saplens angiopoietin 4 (ANG4) mRNA, partial cds
8079	20507	33386	5.49	2.0E-90	4557258 NT	NT	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA
8846	21280	34193	5.37	6.0E-90	113454B3 NT	TN	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
9819	2222	35158	1.29	5.0E-90	11419429 NT	ΪΝ	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
40007	40400	1000	200			 	
44944	┸	\perp		9.0E-90	17433/21	z	Induito sapiens A i Pase, aminophospholipiq transporter like, Class I, type 64, member 2 (A I P642), mKNA
12350	L	3	7.7		P0442004	2 12	Indus Sapiens SELTL (SELTL) gene, partial cds
12408			2.35	1	1523366 4	NAM LI MAN	Printing States (CAPPED DESTRUCTION OF THE PRINTING PRINTING CONTRACTOR OF THE PRINTING PRINT
316	L	25330	2.6		AF231920.1	LN	Homo sablens chromosome 21 unknown mRNA
316	12911		2.6		4F231920.1	¥	Homo sapiens chromosome 21 unknown mRNA
1113	13657		3.91	l		Ę	Homo saplens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1697	14216				X99033.1	Z-	H. seplens gene encoding discoldin receptor tyrosine kinase, exon 16
4701	17217		4.9	4.0E-90	D87675.1	Ł	Homo sepiens DNA for amyloid precursor protein, complete cds
4852			1.81	4.0E-90	AB033070.1	IN.	Homo sepiens mRNA for KIAA1244 protein, partial cds
4875	17387	29759	1.63	4.0E-90	M95967.1	IN	Human prohomone converting enzyme (NEC2) gene, exon 8
5051	17561		0.64		3.0E-90 Al370786.1	EST_HUMAN	qz89d08.xt Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:2041743 3' similar to gb:M31470 RAS-LIKE PROTEIN TC10 (HUMAN);

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
8529			0.89	3.0E-90 B	F516168.1	EST_HUMAN	UI-H-BW1-any-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
8529		33866	0.89	3.0E-90 B	F516168.1	EST_HUMAN	UI-H-BW1-any-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
11378			72.49	3.0E-90	3.0E-90 BE563833.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sepiens cDNA done IMAGE:3689147 5
221			5.04	2.0E-90 B		EST_HUMAN	601067378F1 NIH_MGC_10 Hamo sepiens cDNA clone IMAGE:3453834 5
1204	13745	26189	8.44	2.0E-90	5031748 NT	Z	Hamo saplens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1204		26180	8.44	2.0E-90	5031748 NT	L	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
2276	14784		4.81	2.0E-90	4505052 NT	FZ	Homo saplens lymphocyte antigen 75 (LY75) mRNA, and translated products
3852	16388	28788	2.33	2.0E-90	AI138213.1	EST HUMAN	qc54c02.xf Soares_placenta_8to9weeks_ZNbHP8tc9W Homo sapiens cDNA clone IMAGE:1713410.3' similar to SW:0LF3 MOUSE P23275 OLFACTORY RECEPTOR OR3:
4737		29632	1.03	2.0E-90		NT	Homo saplens mRNA for KIAA0289 gene, partial cds
4981	17492	29869	10.77	2.0E-90	5729855 NT	Į.	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
6056	18628		0.54	2.0E-90	11525901 NT	Z.	Homo sapiens RaP2 interacting protein 8 (RPIP8), mRNA
6056	18628	31320	0.54	2.0E-80	11525901 NT	Z	Homo sapiens RaP2 Interacting protein 8 (RPIP8), mRNA
6065	18637	31331	4.04	2.0E-90	2.0E-90 AW672686.1	EST_HUMAN	bs49405.y3 NIH MGC_10 Hamo septems cDNA clone IMAGE:2899881 6' similar to TR:075208 075208 HYPOTHETICAL 35.5 KD PROTEIN;
989	22294	35233	2.73	2.0E-90	11427320 NT	ΤN	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
989	22294	35234	2.73	2.0E-90	11427320 NT	Į.	Homo saplens similar to laminin receptor 1 (67/40, ribosomal protein SA) (H. saplens) (LOC63484). mRNA
10003			1.67	2.0E-90	AU118985.1	EST HUMAN	AU118985 HEMBA1 Hamo septens cDNA clone HEMBA1004795 5
10003			1.67	2.0E-90 A	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo septens cDNA clone HEMBA1004795 5'
11221	22873	35848	2.6	2.0E-90	11024711	TN	Homo sapiens myosin, heavy polypeptide 4, skaletal muscle (MYH4), mRNA
280	12887	25307	4.03	1.0E-90	4502166 NT	TN.	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-il, Alzheimer disease) (APP), mRNA
389		25397	1.38	1.0E-90 A	F231920.1	N	Homo sapiens chromosome 21 unknown mRNA
380		26397	1.14	1.0E-90		LZ	Homo sapiens chromosome 21 unknown mRNA
715		25697	2.42	1.0E-80		TN	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
715		25698	2.42	1.0E-90		NT	Homo saplens mRNA for T-box transcription factor (TBX20 gene), partial
750		25736	17.97	1.0E-90		NT	Homo sapiens ALR-like protein mRNA, partial cds
750		25737	17.97	1.0E-90	1.0E-90 AF264750.1	. IN	Homo sapiens ALR-like protein mRNA, partial cds
1137			3.72	1.0E-90	7828	L	Homo saplens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1338		26326	3.38	1.0E-90		NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1338	╝	28327	3.38	1.0E-90	1.0E-90 AF096154.1	N	Homo sapiens protein phosphatase 24 BR gamma subunit gene, exon 3
1667	14198		1.46	1.0E-90		EST HUMAN	601159583F2 NIH_MGC_63 Homo sepiens cDNA clone INAGE:3511116 5'

Top Hit Descriptor	Homo saplens similar to SALL1 (sal (Drosophila)-like (LOC57167), mRNA	Homo sapiens chromosome 8 open reading frame 2 (C8ORF2), mRNA	Homo sapiens mRNA for KIAA0903 protein, partial cds	Homo sapiens mRNA for KIAA0903 protein, partial cds	Homo saplens soluble interleukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 9	enu competa cus, anemauven spriced Homo saniens mRNA for KIAAAR33 profein perfei cde	Homo septiens KIAA0623 gene product (KIAA0623) mRNA	Human retina-derived POU-domain factor-1 mRNA, complete cds	Homo sapiens glutamate receptor, lonotropic, N-methy D-aspartate 2A (GRIN2A) mRNA	Homo saplens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA	Homo sapiens brefeldin A-Inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively soliced	Homo saplens CGI-15 protein (LOC51006), mRNA	Homo sapiens CGI-15 protein (LOC51008), mRNA	yg44d11.r2 Soares Infant brain 1NIB Homo saplens cDNA clone IMAGE:35477 5	Human branched chain alpha-keto acid dehydrogenase mRNA, 3' end	Homo sapiens DNA for Human P2XM, complete cds	Homo sapiens DNA for Human P2XM, complete ods	HUM000S381 Liver HepG2 cell line. Homo saplens cDNA clone s381 3'	Homo saplens makorin, ring finger protein, 1 (MKRN1), mRNA	290b04.s1 Sogres_fetal_liver_spleen_1NFLS_S1 Home sepiens cDNA clone IMAGE:4480153'	AU143539 Y79AA1 Homo saplens cDNA clone Y78AA1002087 5	AU143539 Y79AA1 Homo sapiens cDNA clone Y78AA1002087 57	Homo saplens chromosome 22 open reading frame 5 (C22ORF5), mRNA	Homo sapiens chromosome 22 open reading frame 5 (C22ORF6), mRNA	au49709.x1 Schneider fetal brain 00004 Homo saptens cDNA clone IMAGE:2518121 3' similar to	SW ASPG TEAME OF 1888 NATIBETANNACE I YEAR CONSAMINAL N. ASPARAGINASE PRECURSOR:	001801024F1 NIH_MGC_19 Hamo sapiens cDNA clane IMAGE:4130833 5	AV649878 GLC Homo saplens cDNA clone GLCBYF08 3'	
Top Hit Database Source	TN		E	NT.	Ė							Ł			EST_HUMAN		Ę	Π	1.1 EST_HUMAN	Г	EST_HUMAN	EST_HUMAN	EST_HUMAN				Т	ESI HUMAN	Т	1
Top Hit Acession No.	11420514 NT	8005720 NT	1.0E-90 AB020710.1	1.0E-90 AB020710.1	4 OF CO A E462240 4	1.0E-80 AF 107340.1	11426910 NT	1.0E-90 U91934.1	6006002 NT	11426758 NT	11422086 NT	AF163864.1	11422109 NT	11422109 NT	1.0E-90 R25686.1	J04474.1	1.0E-90 AB002059.1	1.0E-90 AB002059.1	8.0E-91 D12234.1	11419234	5.0E-91 AA702784.1	AU143539.1	5.0E-91 AU143539.1	7110634 NT	7110634 NT		AIO/ 8980. I	5.0E-91 BF314082.1 5.0E-91 AV649878 1	6.0E-91 AV649878.1	
Most Similar (Top) Hit BLAST E Value	1.0E-90	1.0E-90	1.0E-90	1.0E-90	100	1.0F-90	1.0E-90	1.05-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90 A	1.0E-90	1.0E-90	1.0E-90	1.0E-90 J04474.1	1.0E-90	1.0E-90	8.0E-91	7.0E-91	5.0E-91	5.0E-91 A	5.05-91	5.0E-91	5.0E-91	i di	0.0C 91 A	5.0F-91	· 5.0E-91	
Expression Signal	1.94	6.31	0.93	0.83		224	1.13	0.81	99.0	2.97	3.96	1.14	1.33	1.33	3.28	2.02	1.89	1.89	6.97	1.78	1.28	1.07	1.07	0.91	0.91	4	97.	1 95	1.95	
ORF SEQ ID NO:	26876			28797	ageoc	31204			33073		34572		34911							34201	28413			29754		9330		34525		
Exan SEQ ID NO:	Ш			16394	46074		L	ſ	20210		1		Ш	21985					- (- 1	_[17070	[17378	1054	1_	丄	Ш	
Probe SEQ ID NO:	1863	2808	3858	3858	4454	5044	6123	7508	7767	8208	9231	9548	9562	9562	10453	10817	12347	12347	4212	8826	3450	4553	4553	4866	4866	6074	87R2	9 83	9183	

Exan SEQ ID . NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
24424		1.7	6.05-91		EST_HUMAN	qe70f11.x1 Soares_fetal_hing_NbHL19W Homo sapiens cDNA clone IMAGE:1744366 3' similar to contains MIR.b2 MIR MIR repetitive element;
15711	28131	4:	4.0E-91		NT.	Homo saplens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
15711	L	4.1	4.0E-91		TN	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds.
23146		2.71	4.0E-91		NT	Homo saplens chromosome 21 segment HS210084
		2.42	4.0E-91	M77994.1	EST_HUMAN	EST01579 Hippocampus, Stratagene (cat. #936205) Homo saplens cDNA clone HHCMC60 similar to Retrovirus-related gag polyprotein
				M77894.1	EST HUMAN	EST01579 Hippocampus, Strategene (cat. #936205) Homo saplens cDNA clone HHCMC60 similar to Retrovirus-related gag polyprotein
24253	<u> </u>			M77894.1	EST HUMAN	EST01579 Hippocampus, Stratagene (cat. #936205) Homo sapiens cDNA clone HHCMC60 similar to Retrovirus-related gag polyprotein
24253	<u> </u>			M77994.1	EST HUMAN	EST01679 Hippocampus, Stratagene (cat. #936205) Homo sapiens cDNA clone HHCMC80 strnier to Retrovirus-related gag polyprotein
14162	L				NT	Homo saplens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
14162	L		3.0E-91		IN	Homo sapiens solute carrier family 4, anton exchanger, member 3 (SLC4A3), mRNA
ŀ	L			AF1695	N	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
		1.65		AF169555.1	NT	Homo saplens beta-ureidopropionase (BUP1) gene, exon 6
				AL163283.2	NT	Hamo saplens chromosome 21 segment HS21C083
	Ŀ	3.98		AB033104.1	NT .	Homo sapiens mRNA for KIAA1278 protein, partial cds
		3.98		AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
				AF084530.1	NŢ	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
				M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
		1.18		AL163285.2	TN	Homo sapiens chromosoma 21 segment HS21C085
		1.18		AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
					TN	Homo sapiens epididymai secretory protein (19.5kD) (HE1), mRNA
		2.75	3.0E-91		TN	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6936 19475					TN	Homo sapiens gamma-eminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
					N _T	Homo saptens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transoript variant 2, mRNA
	L			U86959.1	N.	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
				U86959.1	TN	Human L-type celclum channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
. 1				D16494.1	TN	Human mRNA for very low density lipoprotain receptor, complete cds
10976 23405				AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
12380 112380 112380 112380 112380 112380 114803 114		Exam SEQ ID ID ID NO: 15711 15711 15711 15711 15711 15711 15711 15711 15711 15711 15711 15711 15711 15711 15712 15	Exam ORF SEQ Expression No.: Signed No.: Signed No.: Signed No.: Signed 15711 28132 24085 31028 24085 31028 24253 30928 24085 31092 24085 31092 24085 31092 24080 15092 27607 15092 27607 15092 15092 28952 17146 29526 17146 29526 17146 29526 17146 29526 19181 19181 20591 33474 20591 23474 20591 23474 20591 23474 20591 23474 20591 23474 20591 23474 23405 36414	Exmn NO: CRF SEQ Expression (To Signel NO: Most No: NO: 24424 1.7 15711 28131 1.4 15711 28132 1.4 15711 28132 1.4 15711 28132 1.4 23146 36130 2.71 24253 30928 1.35 24253 30928 1.35 14162 26633 1.13 14162 26633 1.13 14162 26633 1.13 14162 26633 1.13 14162 26633 1.13 14162 26633 1.13 1692 27607 1.65 1698 2879 1.65 1698 2879 3.98 1638 28400 3.98 1746 2858 1.18 1768 2858 1.18 1768 2858 1.18 1768 2858 1.18 1853 <td>Exm ORF SEQ Expression Signel Most Similar (Top) Hit Top Hit Acession Signel Most Similar (Top) Hit Top Hit Acession No. 24424 1.7 5.0E-81 Al183568.1 No. 15711 28131 1.4 4.0E-91 AF166778.1 15711 28132 1.4 4.0E-91 AF166778.1 24065 30130 2.71 4.0E-91 AF166778.1 24253 30928 1.35 4.0E-91 AF166778.1 14162 26632 1.35 4.0E-91 AF166778.1 14162 26632 1.35 4.0E-91 AF166778.1 14162 26632 1.35 4.0E-91 AF16678.1 14162 26632 1.35 4.0E-91 AF16678.1 14022 27603 1.35 4.0E-91 AF16328.1 15082 27603 1.35 4.0E-91 AF16328.1 15082 27603 1.65 3.0E-91 AF16328.2 15082 28299 3.9E-91 AF16328.2 16883 28400 3.9B 3.0E-91 AF16328.2 17465 28652 4.76 3.0E-91 AF16328.2 1</td> <td>Examonom ORF SEQ Expression (Top) HIt Top Hit Acession (Top) HIt Top Hit Acession (Top) HIt Top Hit Acession (Top) HIT Top Hit Acession (Top) Hit Acession (Top) Hit Acession (Top) HIT Top Hit Acession (Top) Hit Acessi</td>	Exm ORF SEQ Expression Signel Most Similar (Top) Hit Top Hit Acession Signel Most Similar (Top) Hit Top Hit Acession No. 24424 1.7 5.0E-81 Al183568.1 No. 15711 28131 1.4 4.0E-91 AF166778.1 15711 28132 1.4 4.0E-91 AF166778.1 24065 30130 2.71 4.0E-91 AF166778.1 24253 30928 1.35 4.0E-91 AF166778.1 14162 26632 1.35 4.0E-91 AF166778.1 14162 26632 1.35 4.0E-91 AF166778.1 14162 26632 1.35 4.0E-91 AF16678.1 14162 26632 1.35 4.0E-91 AF16678.1 14022 27603 1.35 4.0E-91 AF16328.1 15082 27603 1.35 4.0E-91 AF16328.1 15082 27603 1.65 3.0E-91 AF16328.2 15082 28299 3.9E-91 AF16328.2 16883 28400 3.9B 3.0E-91 AF16328.2 17465 28652 4.76 3.0E-91 AF16328.2 1	Examonom ORF SEQ Expression (Top) HIt Top Hit Acession (Top) HIt Top Hit Acession (Top) HIt Top Hit Acession (Top) HIT Top Hit Acession (Top) Hit Acession (Top) Hit Acession (Top) HIT Top Hit Acession (Top) Hit Acessi

Table 4
Single Exon Probes Expressed in Lung

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Probe SEQ (D NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
10976	23405	36415		3.0E-91	AB029003.1	NT	Homo saplens mRNA for KIAA1080 protein, partial cds
11508	L		2.79	3.0E-91	AF190864.1	FN.	Homo saplens ADP-ribosylation factor binding protein GGA3 (GGA3) mRNA, complete cds
	1						Homo saplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
12081	24223	30957	1.68	3.0E-91		NT	genes, complete cds
12440	15092	27607	4.29	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
12440	15092	27608	4.29	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, extm 6
10925	23367			2.0E-91	BE784237.1	EST_HUMAN	601471469F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874648 5
11528	23886			2.0E-91	6871607	TN	Mus musculus BTB and CNC hamdegy 2 (Bachz), mRNA
99	12871	52069	2.97	1.0E-91		NT	Homo saplens chromosome 21 segment HS210084
1278	13814	26268	6.6	1.0E-91	AW 449746.1	EST_HUMAN	UI-H-Bi3-aks-d-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
8999	L.	L	0.82	1.0E-91	11434402	LN	Homo saplens hypothetical protein PRO1855 (PRO1855), mRNA
7238	19850	32669	2,17	1.0E-94	BF348182.1	EST_HUMAN	602022088F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'
7238	19850	32870	2.17	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157804 5'
8488	20908	33803	0.56	1.0E-91	M20453.1	NT	Human nucleus-encoded mitochandrial aldehyds dehydrogenase 2 (ALDH2) gene, exan 10
11966			1.81	1.0E-91	H15212.1	EST_HUMAN	ym30e03.r1 Soares Infant brain 1NIB Homo saplens cDNA clone IMAGE:49587 5'
1274	13811	26262	9.51	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
1274	13811	26263	9.51	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
5721	18303	30735	16.4	9.0E-92	J03007.1	NT	Human Na+,K+ ATPase alpha-subunit mRNA, partial cds
5872	يا	31126	2.75	9.0E-92	11427149 NT	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
9829	18339	32110	4.47	9.0E-92	AF310105.1	IN	Hamo sapiens NALP1 mRNA, complete cds
8912	21346	34262	1.93	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8912	21346		1.93	9.0E-92	AB040945.1	NT	Homo saplens mRNA for KIAA1512 protein, partial cds
9531	21946		1.74	9.0E-92	11422086 NT	NŢ	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
10977	23406		3.02	9.0E-92	7709689 NT	NT	Homo sapiens RNB6 (RNB6), mRNA
95	12712	25125	5.47	8.0E-92	W26367.1	EST_HUMAN	26f3 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
299	12895	25315	3.91	8.0E-92	BE386363.1	EST_HUMAN	601273513F1 NIH_MGC_20 Hamo sapiens cDNA clone IMAGE:3614667 5'
		١.					au83h08.x1 Schnelder fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
5244			0.62	j	AW157571.1	EST_HUMAN	TR: 060302 060302 KIAA0555 PROTEIN ; contains element MEK22 repetitive element;
5648	18235	30634		8.0E-92	AB045820.1	NT	Homo sapiens mRNA for KIAA1600 protein, partial cds
	·						Homo sapiens FYVE domain-containing dual specificity protein phosphalase FYVE-DSP2 mRNA, complete
5760	- (8.0E-92	AF264717.1	Z	spo
8888			1.27	8.0E-92	AJ000979.1	N	Homo saplens MCP-4 gene
6902	- (1.1		AF179428.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
8328	20743	33637	0.48	8.0E-92	X69536.1	N	H. sepiens gene for Inter-alphe-trypsin Inhibitor heavy chain H1, exons 7-8

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Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8328	1	33638	0.48	8.0E-92	X69536.1	F	H.sapiens gene for inter-erbha-tryosin inhibitor heavy chain H1 exons 7.8
8950			3.63	8.0E-92	L04193.1	Į.	Human lens membrane protein (mp19) gene ewn 11
8950				8.0E-92	L04193.1	۲N	Human lens membrane protein (mp18) cene, expn 11
9387				İ	AB014511.1	Į.	Homo saplens mRNA for KlAA0811 marter name not
10054	22455	35405	1.2		8.0E-92 Y13829.1	LN LN	Homo saplens mRNA for MBNL protein
10587	23033	36016	1.99	8.0E-92	AF074393.1	TN	Homo saplens nuclear mitogen- and stress-ectivated perten kinese ((AKK4) mDNA
11118		36614	4.19	8.0E-92	4503340 NT	TA.	Hamo saplens dihydralipoemide S-succinylitansferase (E2 component of 2-oxo-glutarate complex) (DLST)
28			1.6	7.0E-92 A	B03100	TN	Homo saniens DNA MHC class I region 7.4 anomalimi homitation
8			3.71	7.0E-92	7.0E-92 M60676.1	NT	Human von Willebrand factor pseudopene comessonalina to some 29 thurst 24
249			6.05	7.0E-92)	7.0E-92 AB018301.1	Į.	Homo sablens mRNA for KIAA0758 median podicil color
240		25267	6.05	7.0E-92	7.0E-92 AB018301.1	NT	Homo saplens mRNA for KIAA0758 protein partial cats
8			1.21	7.0E-92 A	AF007822.1	NT	Homo september in Services in meeted persons and a services of the september of the services of the services in the services of the services o
1313			1.67	7.0E-92	4502384 NT	IN	Homo saplens B-cell CLU/mmbome 76 (RCI 78) mRN∆
2082			3.64	7.0E-92		NT	Homo sepiens ARP2 (actin-related protein 2, yeast) hamolog (ACTR2), mRNA
2032			3.54	7.0E-92		TN.	Homo saplens ARP2 (actin-related protein 2, veast) homolog (ACTR2) mRNA
2477	_[3.32	7.0E-92 A	F16770	LN	Homo sapiens cystelne-rich repeat-containing protein S52 precursor mBNA complete cds
2678	\perp	27679	4.49	7.0E-92	6005738 NT	N.	Homo saplens NRAS-related gene (D7S155E), mRNA
2710	_ [27716	9.16	7.0E-92	7.0E-92 AB031007.1	NT	Homo saplens DNA MHC class I review 7.1 ancestral handowns
3318		28283	0.85	7.0E-92	4507500 NT	N.	Homo saplans T-cell lymphoma invasion and matastasis 4 (TIANA) month
3318	17983	28284	0.85	7.0E-92	4607500 NT	Į.	Homo saplens T-cell (Imphome investor and metastasis 1 (TIAM1) mBNA
4626	17142	29523	1.25	7.0E-92	7.0E-92 S71824.1	Į.	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt
4626		29524	1.25	7.0E-92	7.0E-92 S71824,1		N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer call line OS2-R, mRNA, 2960 mit
5511		30345	5.93	7.0E-92	Γ	T HUMAN	2w66d12.r1 Soares testis NHT Homo canions ANA almo 144 AE 19477. E.
2723		27728	2.44	3.0E-92		Г	601501242E1 NIH MGC 70 Home contens collect MACE Secret 1
6164		31436	5.18	3.0E-92		Т	EST9020 Synovial serroms Homo septems CDNA At and similar to simil
10547	22994	35976	10.35	3.0E-92 X1	5804.1		Human mRNA for goherectinin
10547	22994	35977	10.35	3.0E-92	5804.1		Human mRNA for alpha ectinin
27	12647	25035	1.21	2.0E-92	4501898 NT		Hamo saplens activin A receptor, type IIB (ACVR2B) mRNA
183	12785	25189	3.61	2.0E-92	11422946 NT		Homo septens hypothetical protein d1462023.2 (D1462023.2) mRNA
183	12785	25200	3.61	2.0E-92	11422946 NT		Homo septens hypothetical protein dJ462023.2 (DJ462023.2), mRNA

Exon ORF SEQ Expression (Top) Hit Top NO: Signel BLASTE Value	Most Similar Expression (Top) Hit T Signal BLAST E Value			op Hit Acesslan No.	Top Hit Database Source	Top Hit Descriptor
25762 2.97	297	2.0E-92 BE29	BEZ	Γ	EST_HUMAN	601118337F1 NIH_MGC_17 Hamo septens cDNA clone IMAGE:3028304 6"
	2.87	2.0E-92 BE299	BEZG	Γ	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sepiens cDNA clone IMAGE:3028304 5
14240 1.13 2.0E-92 S7865			S7865		TN	mrg≖mas-related [human, Genomic, 2416 nt]
14408 26904 1.94 2.0E-92 AI818118.1	1.94 2.0E-92 A	2.0E-92 AI8181	A/8181	19.1	EST_HUMAN	wk27d07.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844 O12844 BREAKPOINT CLUSTER REGION PROTEIN;
14408 26905 1.94 2.0E-92 AI818119.1	1.94 2.0E-92 A	2.0E-92 AI8181	AIB181	19.1	EST HUMAN	wk27d07 x/ NCI_CGAP_Bn/25 Homo saplens cDNA done IMAGE:2413549 3' similar to TR:Q12844 Q12844 BREAKPOINT CLUSTER REGION PROTEIN:
14493 27003 8.95 2.0E-92	8.95 2.0E-92	2.0E-92	ı	4506860 NT	Z	Homo saplens syndecan 4 (amphiglycan, ryudocan) (SDC4) mRNA
27606 15.08	15.08			6912457 NT	N	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
28554 0.89	0.89		AF2319		LN	Homo sapiens chromosome 21 unknown mRNA
	0.89		AF2319		NT	Hamo saplens chromosame 21 unknown mRNA
28633 6.49	6.49			5803180 NT	Z	Homo saplens stress-Induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA
29219	1.47 2.0E-92 N	2.0E-92 M10976.	M10976.		LN	Human endogenous retroviral DNA (4-1), complete retroviral segment
29700 0.59	65.0		AF13652		F	Homo sapiens bile salt export pump (BSEP) mRNA, complete cds
3.69			AL04043	П	EST_HUMAN	DKFZp434C0414_r1 434 (synonym: htes3) Homo sepiens cDNA clone DKFZp434C0414 51
0.67	0.67		AL16320		IN	Homo saplens chromosome 21 segment HS21C001
18613 31301 0.65 2.0E-92 AF016535.1	0.65		AF016535		NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
1.07 2.0E-92	2.0E-92	2.0E-92		4504756 NT	TN	Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function associated antigen 1; apha polypeptide) (ITGAL) mRNA
32288 2.35	2.35 2.0E-92 A	2.0E-92 A	AB02899		Z	Homo sapiens mRNA for KIAA1068 protein, partial cds
			U67780.		Z	Human NPY Y1-like receptor pseudogene mRNA, complete cds
ı	ı	ı	U67780.		NT .	Human NPY Y1-like receptor pseudogene mRNA, complete cds
21690 34602 1.3 2.0E-92 AW340174.1	1.3 2.0E-02 A	2.0E-02	AW3401		EST HUMAN	hd02h02.x1 Soares, NPL_T_GBC_S1 Homo septens cDNA clone IMAGE:2908371 3' similer to TR:002711 O02711 PRO-PQL-DUTPASE POLYPROTEIN:
2.0E-92	2.41 2.0E-92	2.0E-92	}	900	L	Homo saplens thyroid stimulating hormone receptor (TSHR), mRNA
36252	3.58			5803103 NT	FN	Homo saplens male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA
36361 2.54	2.54 2.0E-92 A	2.0E-92	AW836	290.1	EST HUMAN	CM4-LT0026-161299-062-g06 LT0026 Homo saplens cDNA
36362 2.64 2.0E-92 A	2.64 2.0E-92 A	2.0E-92 A	AW836		EST HUMAN	CM4-LT0026-161299-062-g06 LT0026 Homo saplens cDNA
30942	2.93		AB029(FZ	Homo sapiens mRNA for KIAA1093 protein, partial cds
	38.96			6912457 NT	N.	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
30459 1.18 2.0E-92 A	1.18 2.0E-92 A	2.0E-92 A	AF100		NT	Homo sapiens adenylosuccinate lyase gene, complete cds
26842	1.27		R780			y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5
14344 26843 1.27 1.0E-92 R780	1.27	1.0E-92 R780	778 88		EST_HUMAN	yi80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'

L							Bill Tall Page 14
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession	Top Hit Database Source	Top Hit Descriptor
1007	14512	02020					
	Ŧ		38.76	1.0E-92	4508688 NT	LNT.	Homo saplens ribosomal protein, large, P1 (RPLP1) mRNA
9449	21880	34798	3.66	1.0E-92	Al380358.1	EST_HUMAN	tgo1b02.x1 NCI_CGAP_CIL1 Homo septens cDNA done IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;contains Alu repetitive element;contains element MER17 repetitive element;
9449	21880	34788	3.68	1.0E-92	Alasmase 1	2 Fen	1901b02x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN 016825 PROTEIN-TYROSINE PHOSPHATASE D1 ; contains Alu repetitive element; contains clement
1963	14481	26990			. 1 4	EST HUMAN	AU121681 MAMMA1 Homo caniens of NAA Johns MA MAAAAAA
1973	14491		21.15	9.0E-83	. ~	EST HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo septens cDNA 6' end similar to ribosomal protein L29
2583	15079		1.58	9.0E-93	9.0E-93 AF223391.1	L _V	Homo saplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively
3609		28557	1.04	9.0E-93 B	BE388571.1	EST HUMAN	601281867F1 NIH MGC 44 Home combes CDNA
11390	23762		31.68	9.0E-93	L	1	Home earliest the second control of the Control of
6946	19484	32263	3.56	8.0E-93 B	F0363	EST HUMAN	801460521F1 NIH MGC 68 Home sealers CINA Class HAA OF Seasons 21
8519	24997		0.44	8.0E-93	8.0E-93 AA777071 1	HOT HIMAN	### ### ### ### ### ### ### ### ### ##
259		25274	20.03	7.0E-93 A	AF231919.1	L	Himp satisface absonces of
3037		28004	0.74	6.0E-83	11526176 NT	Į.	Homo earleas Tooli kmshown mrking
7050		32379	1.07	6.0E-93	6.0E-83 AB033093.1	L	Homo seniens mRNA for KIAA1387 motels.
7325]	32541	1.24	6.0E-93	6.0E-93 AF095771.1	Ł	Hamo saplene PT Hyperpurelya Acharoneses D4
1413	13947	28403	1.08	5.0E-03	5.0E-03 AB014511.1	L	Homo seniens mRNA for KIAA0811 moters and all
1439	13971	26427	5.49	5.0E-93	AI674184.1	T HUMAN	wc09c08.x1 NCI CGAP Pr28 Home sanians cONA charally ACE 2022 At
1439	13971	29428	5.49	5.0E-93	5.0E-93 AI874184.1	Г	Wc08c08.x1 NCI_CGAP_Pr28 Homo saniens cDNA chare IMAGE:3344870.3
2002	1		1.27	6.0E-93		Г	Homo saplens chromosome 21 segment HS21C001
Sal.	4	26818	0.99	5.0E-93	1.1	NT	Homo saplens mRNA for CDC21 5 profesh kinase (CDC21 R cens.) Indiana
3182	15745	28166	3.51	5.0E-93		N	Human skeletal muscle 1.3 kb mRNA for transmissing
888	18653	31347	1.2	5.0E-93	5.0E-93 M22878.1		Human somatic cytochrome c (HC1) processed assertionens commune and
6420	18977		1.58	5.0E-93	5.0E-93 AF045555.1	IN	Homo saplens wbscrt (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) nene complete cds.
8259	20676	33566	3.76	5.0E-93 A	F067136.1	ħ	Homo saplens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, excn 11, complete cds and alternatively spliced product
9779	22182	35117	232	6.0E-93 AI	-274863.1	ŢN	Homo sablens serreitny neithury commons to 2000 a 11111
							The state of the s

			7	٦		T				٦	7	7	7	7	7		7	\top		٦					7	\top			П	П	П	Γ
migra ryon rionas rybiessed in rung	Top Hit Descriptor	Homo sanians TAR (HN) RNA hinding protein 4 (TABBOA) BNA	Homo saplens WSR4 protein (WSR4 protein (TARBET) mKNA	Homo sapiens miclookholin 2 (NI (Ops) - DNA	Homo sanians demma-di demyltran-forma 4 (OCTA) Bilia	2x50e09.s1 Soares_testis_NHT Hemos sepiens cDNA done IMAGE:795988 3' similar to SW:CLPA_RAT	Homo saplene Interferon commer constant of Item Constant	Homo sanishs Inferiors commo condition (ITNGRI) mKNA	Homo sapiens missiendi gamma receptor 1 (IFNGR1) mRNA Homo sapiens pescadillo (zahrafisk) homolog 4 maria-laine 5507 1	Homo Saplens pescedillo (zehrafish) homoka 1 containing proci domain (PES1), mKNA	Homo sapiens hypothetical protain El 120734 (El 120734), month	Homo sepiens dystronhin (DMD) done deletin broducing 4 3 1 1 1 1 2	Homo saplens DNA polymerasa zeta catabilitica in internal	Homo sablens TNF-inducible amtels CC12.4 (CC12.4) LINAA, complete cas	Homo Sablens frimos entinen SI D. S. / LOCk) - Day	Homo sapiens Inhederich 18 recenter 4 // 1954) Bake	Homo sabiens frimot entiren SI D av /UCCO - DNA	ANNUL (COOL) de l'annuau annuau annuau annuau annuau annuau annuau annuau annuau annuau annuau annuau annuau a	7094612.rf Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:78838 6' similar to similar to	AV622051 CKC Home conjune and a language of the Control of the Con	SD224855451 NIH MOC 82 U	60224635461 NIH MCC WILDING SEPTEMBER CON CIONE INVESTIGATION OF SECTION OF S	Home serions foreign DNA American Control (MAGE: 4332038 6)	moderns canadi modern conjugate cas	Inc. Book 1 NO. COAP BINZS Home suprens CONA date IMAGE 2769076 3		Tronto septens GUND (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA	WOZZUGUST NO. COAP GO Homo sapiens cDNA clone IMAGE:2304489 3'	Chlorocebus geonops micha for ribosomal protein S4X, complets cds	Homo centars abrunces of the contract of the c	Homo satistic chromosome 21 segment HS21C085	round septema chromosome zr segment HSZ1C086
פום ביסוו גווסים פום	Top Hit Database Source	Į.	Į.	Ę	Į	FST HIMAN	IN	L L	L	E	¥	Ę	Į	Į.	TA.	L _N	Į.		EST HIMAN	EST HUMAN	EST HIMAN	FST HIMAN	LN L	F HIMAN	Т	ŀ	T CHINABI	Т				
5	Top Hit Acession No.	5032156 NT	AF069313.2	11439589 NT	11417877 NT	AA459933.1	57879	4557879 NT	7657454 NT	7657454 NT	8923658 NT	4F047677.1	Γ	56972	7705396 NT	4504654 NT	7705396 NT		[46864.1 			Π	T	T		20,00	1824820 4	B015810 1	B015610.1	ŀ	T	I
	Most Similar (Top) Hit BLAST E Vatue	5.0E-93			5.0E-93			4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93		4.0E-83	4.0E-93	4.0E-93	4.0E-93		4.0E-93	1	,	144		3.0E-93		3.05.03	3 0F-93 A	2.0E-93 A	2.0E-93	2.0E-93 A	2.0E-93 A	2 OF 03 A
	Expression Signal	1.26	1.84	1.9	1.87	6.41	2.31	2.31	1.22	1.22	2.18	2.98	1.59	3.6	0.83	2.15	0.83		4.72	39.14	^	7	6.32	0.64	0.54	1.12	22	19.65	19.65	10.9	7.49	263
	ORF SEQ ID NO:	35241	35448	36036	30837		25459	25460	25787			26944			28514	28983	28514		31173	36351	28597	28598		31333	31334	32234	36013	25214	25215	25347	25347	26631
	Exon SEQ ID NO:		22491		24578	12707	13036	13036				ı	į		16097	16591	16097		18490	23343	16191	16191	16777	18639	18639	19455	23030	12799	12789	12930	12930	14161
	Probe SEQ ID NO:	9897	10090	10607	12069	80	462	482	794	ğ	1214	1922	2183	2535	3555	4000	5127		5912	10911	3651	3651	4252	2909	2909	6916	10583	188	198	337	338	1629

Table 4 Single Exon Probes Expressed in Lung

מים דילון המים וו דתוול	Top Hit Descriptor	Homo sapiens candidate taste recentor T2R14 name complete ede	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1)	Homo sabiens KIAA0672 gene product (KIAA0872) mBNA	Homo sapiens protein kinasa C. bata 1 (PRKCR1) mRNA	Human mRNA for NF1 N-Isoform-exon11, complete ods	Homo saplens mRNA for KIAA1411 protein, partial cds	H.sapiens mRNA for MEMD protein	Homo sabiens protein Idnase inhibitor damma (PKIG) mRNA commiste Ads	Homo sablens mRNA for KIAA1485 protein partial chs	Homo saplans Trio Isoform mRNA : complete celes	Human Pre44 dene for Alzheimer's disease 64 cm/s/d metric	Human PreA4 gane for Alzheimer's disease A4 smylyid protein precursor (exon 9)	qm03c12.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1880768 3' similar to WP:T18B4.4	USI 3/42;	nome sapiens GG I 1 gene, exon 1	Homo sapiens glufathione S-fransferase theta 2 (GSTT2), mRNA	Homo saplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete ods	Homo seplens chromosoms 24 serment He24 Cono	Homo saniens transcription enhancer feather 5 m BNIA	Homo saplena militaren eritaried protein Vinces 42 //4/20/20 - 20114	Homo saplens mRNA for KIAA0612 protein partial cris	Homo sapiens mRNA for KIAA0612 protein partial cds	2987g08.s1 Soares fetal heart NbHH19W Home saniens china dans MACE: Johnson 3	ot83d05.s1 Soares total fetus ND2HF8 9w Home semblas cONA class MACE-4822220 of	602042163F1 NCI CGAP Brief7 Home sepiens cDNA clone IMAGE-4180003 E	Homo seplens adentified kinase 2 (AKS) mRNAS	Homo saplens adenviate kinase 2 (4K2) mRNA	Homo sarians adamate kinece 2 (AV2)	Homo satians adamyla kinese 2 (ANZ), mDNA	VIG8B04.51 Spates fetal liver colean 1NELS Home continue about a land to the colean state of the colean st	Hamo septens cleavage and advadendation specific factor 4 160kD submitt (PDE 54) - Falsa	Homo saplens ribosomal protein L27 mRNA, complete cds
	Top Hit Database Source	Ę	5	Į	Į.	Ę	Ę	Σ	Z	LN LN	Į.	Į.	IN	TOT TOTAL	HANDINAN			Ä	Į.	Į	: -	N _T	Į.	EST_HUMAN	EST HUMAN	EST HUMAN	Į	ļ		17	EST HUMAN	17	NT
	Top Hit Acession No.	AF227138.1	4557792 NT	7862241 NT	11431590 NT	D42072.1	AB037832.1	Y10183.1	AF182032.1	AB040918.1	AF091395.1	X13474.1	X13474.1	A 258262 4	A 1230425 4	44.44.7050	000/14	AF240786.1		T -	18351	AB014512.1	4B014512.1	AA722434.1	41015800.1		11423962 NT	11423962 NT	11423962 NT	11423962 NT	89398.1	9558724	.05094.1
	Most Similar (Top) Hit BLAST E Vatue	1.0E-93	1.0E-93	1.0E-93	1.0E-93	1.0E-93	1.0E-93		1.0E-93	1.0E-93		1.0E-83		1.05-93			1.01-35	1.0E-83	8.0E-94	_	6.0E-94	5.0E-94 /	1	-	5.0E-94	, w	5.0E-94	5.0E-94	5.0E-94	5.0E-94	5.0E-94 T	5.0E-94	4.0E-94 L
	Expression Signal	1.15	12.28	1.05	2.09	6.33	1.89	1.43	1.18	1.25	1.13	5.36	5.36	2.2	1.55	3 27		2.11	0.86	2.19	1.81	3.65	3.65	4.36	1.55	0.92	3.59	3.69	1.8	1.8	7.88	1.28	10.55
	ORF SEQ ID NO:	31307	31482	31807	32713	33003	34161	34371	34443	33846	33849	35090	35091	30773						28917		30810	30811	31645	32768	34435	36176	36177	36775	36776	30467		-
	Exon SEQ ID NO:	18618	18776	19065	19890	20145	21266	21483	21534	20947	20950	22159	22169	24681	24340	24389		24949	22827	16510	24484	18210	18210	18912	19336	21528	23191	23191	23716	23716	24952	24537	14338
	Probe SEQ ID NO:	6045	6210	6511	7177	7700	8821	8034	9102	9928	9929	9756	9756	11599	12232	12330		12523	10427	3975	12484	5823	2623	6354	7431	9896	10753	10753	11352	11352	11930	12549	1815

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2594		27605	2.14	4.0E-94	4506008 NT	Ę	Homo sablens protein phosphatese 1. requisions submit 10 (DDD4R1n) mBNA
3671		28616	96.0	L	AW 1978	EST HUMAN	XNB9112.X1 Source NF T GBC S1 Homo seriens cDNA close INA CE 2274 520 2
3671	16211	28617	96.0		4.0E-94 AW197851.1	EST_HUMAN	xn89f12.x1 Soares NFL_T GBC S1 Homo saplens cDNA clone IMAGE-2701679.3
4769	17283	29668	3.45	4.0E-94 A	Al591312.1	EST_HUMAN	w11f10.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2269403 3' similar to TR:Q15265 Q16266 PROTEIN TYROSINE PHOSPHATASE;
6813	19354	32130	1.83	4.0E-94	11440870 NT	-N	Homo sablens solute carrier family 22 (ordanic celton transmorter) member 4. lite (SI C22441)
6813	19354	32131	8.1	4.0E-94	11440670 NT	<u> </u>	Homo sanjana soh da namiar family 22 femana cultan temana cultan temana cultan
7320	19732		0.92	4.0E-94	127386	Į.	Homo saniens huntingth (HD) dans awa 37
10888	23320	36319	3.13	4.0E-94	4.0E-94 AB004929.1	¥	Homo sapiens dene for Smed 3. exon 8.
11204	22856	35829	2.49	4.0E-94	11645792 NT	Į.	Homo sablens hypothetical protein FI. 112455 (FI. 112455) mBNA
930	13194	25600	1.26	3.0E-94	AB0227	NT	Homo saplens ASHZL gane, complete cds, similar to Drosophila ash2 gane
741	13302	25726	0.99	3.0E-94	4502506 NT	Į.	Homo sapiens complement component 5 (C5) mRNA
1732	14259	28744	1.84	3.0E-94	3.0E-94 AF167706.1	LN	Homo saplens cysteine-rich repeat-containing protein S52 premissor mRNA complete cite
1732	14269	26745	1.84	3.0E-94	3.0E-94 AF167706.1	LN	Homo saplens cysteine-rich repeat-containing protein \$52 premisor mRNA complete cds
1757	- 1	26767	2.47	3.0E-94		FN	Homo saplens E1A binding protein p300 (EP300) mRNA
4205	ı	29119	0.65	3.0E-94 A	AA464805.1	EST HUMAN	2W63g08.r1 Soares total fetus Nb2HF8 9w Homo seniens cDNA clone IMAGE:774782 #
2920	- 1	31210	3.72	3.0E-94		f.	Homo sapiens zinc finger protein 277 (ZNF277) mRNA
8 8 8		31753	1.12	3.0E-94	3.0E-94 AB011536.1	LN	Homo sapiens mRNA for MEGF2 partial cds
679 297	19337	32108	4.63	3.0E-94	11526228	NT	Homo saplens chromosome 21 open reading frame 18 (C210RE18) mRNA
8374	20788	33687	0.58	3.0E-94	4826863 NT	TN	Hamo saplens neuronal call adhesion molecule (NRCAM) mRNA
8776	21210	34113	1.06	3.0E-94		NT	Homo sapiens protocedherin alpha 13 (PCDH-alpha13) mRNA complete and
8020	21491	34402	4.88	3.0E-94		NT	Hamo saplens mRNA for KIAA0679 protein, partial cds
9760	22183	35097	5.08	3.0E- 04	AF087942.1	TN	Homo seplens divogentin-1L mRNA, complete cds
10885	23317	36314	4.26	3.0E-94	4757821 NT	LN L	Homo sapiens exonal transport of synaptic vesicles (ATSV) mPNA
11412	23773	36832	3.08	3.0E-94 U2	6711.1	Į.	Human cbl-b truncated form 1 lacking leucine zinner mRNA complete cds
33	12758	25178	2.42	1.0E-94	295714.1	EST HUMAN	601176762F1 NIH MGC 17 Homo saplens CDNA clone IMAGE:383038 F:
3051	15805	28014	2.36	1.0E-94 BE	253433.1	EST_HUMAN	801111698F1 NIH MGC 16 Homo saplens cDNA clone IMAGE:3352555 6:
3051	16605	28015	2.36	1.0E-94 BE	253433.1	Г	601111696F1 NIH MGC 16 Homo sapiens cDNA clone IMAGE:3352659 F
8280	16902	29287	0.94	1.0E-94	9506692 NT		Homo saplens hypothetical protein (FL/20746) mRNA
4842	17354	29739	3.22	1.0E-94	1.0E-94 AI904151.1	EST HUMAN	CM-BT043-090299-075 BT043 Homo segiens cDNA
6379	18936	31674	1.04	1.0E-94	000269.1		Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
6280	19141	31888	0.88	1.0E-94 AL	040518.1	EST_HUMAN	DKFZp434G0314_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434G0314 5'
							* · · · · · · · · · · · · · · · · · · ·

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
9899	404 EO	04000		DO LO			
0000	1		8.5	1.0E-84	H082/0.1	EST_HUMAN	yi87702.r1 Soares Infant brain 1NIB Home sapiens cDNA clone IMAGE:45053 5'
8000			0.68	1.0E-94	AV725992.1	EST_HUMAN	AV725992 HTC Hamo saplens cDNA clane HTCBEF05 67
9517		34908	2.28	1.0E-94	11428710 NT	Į,	Homo saplens pelred box gene 5 (B-cell lineage specific activator protein (PAXS) mRNA
8888	22282	35232	1.67	1.0E-94	BE780478.1	EST_HUMAN	601468748F1 NIH MGC 67 Homo sepiens cDNA clone IMAGE:3872099 67
10847	23280	38270	5.68	1.0E-94	U65590.1	IN	Homo saplens II -1 recentor antanonict II -4 Bo /II -4 BN) record altomostical.
11083	23508	36540	235	1.0E-94	A 272244 1	EST HIMAN	ap22e02xt Schiller oligodendroglame Homosaplens CDNA done IMAGE:1956122 3' similar to TR:26245
11466		36889	1.99	1.0E-94	11418871	N	Homo Ranlens KIA AAA Ka mana anadura (KIA AAA AA)
12375	12758	26178	1.28	1.0E-94	BE295714.1	EST HUMAN	6017578951 NIH MGC 17 Home septem APA June 146 CE SERVER E
1505		26501	1.41	9.0E-96	Γ	NT	Homo septens TNF-alpha stimulated ARC protein (ARCS) mRNA complete of
3114		28079	1.04	9.0E-95	32027	Į.	Homo sapiens KIAA0265 name product (KIAA0265 mount)
3114	15667	28080	1.04	9.0E-95	7662027 NT	LN	Homo sapiens KIAA0255 nene product (KIAA0255), minuta
5661		30645	1.44	9.0E-95	X82569.1	N	M.musculus alVT1 dana (exons 1c and 2)
5661		30646	1.44	9.0E-95	X82569.1	NT	M.muscudus givT1 gene (exams 10 and 2)
8814	21248	34162	1.67	9.0E-95	AF274753.1	NT	Hamo saplens progressive ankylosis-like protein (ANK) mRNA complete cde
4572	17089	29475	1	8.0E-95	AI700998.1	EST HUMAN	we08e04.xf NCI_CGAP_Lu24 Homo sepiens cDNA ctone IMAGE:2340606 3' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HIMAN)
4572	17089	29476	-	8.0E-95	AI700998.1	EST HUMAN	we09e04.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:2340606 3' similar to gb:K00558 TUBLI IN AI PHA.1 CHAIN HI IMANN:
7359	19816	32830	96.0	8.0E-95	19376	NT TA	Homo seplens KIA40193 gene product (KIA40193) mRNA
7690	20135	32091	1.56	8.0E-95	11426529 NT		Homo saplens proteasome (prosome, macronein) 26S subjust hom ATPase 11/PSMD11)
7690	20135	32992	1.56	8.0E-95	11428529 NT		Homo saplens proteasome (prosome, macropain) 265 subunit non-ATDese 11 (DSM)111 mBNA
8774	ł	3410	1.78	8.0E-95	AF032897.1		Homo sepiens potassium channel subunit (HERG-3) mRNA complete cde
928	- 1	35001	2.04	8.0E-95	11420944 NT		Homo saplens KIAA0255 gene product (KIAA0255) mRNA
9286	- 1	35002	2.04	8.0E-95	11420944 NT		Homo saplens KIAA0255 cans product (KIAA0255) mRNA
8830		35280	2.78	8.0E-95	5174644 NT		Homo sapiens profine dehydrogenese (profine gyddaes) (DBOOH) mBNA
8952	22354		3.79	8.0E-95	AB037816.1		Homo saplens mRNA for KIAA1395 protein, partial cds
10202	22833	35567	0.88	8.0E-95	9845523 NT		Homo sapiens early growth response 2 (Krox-20 (Drosonhila) homeloo) (FGR2) mRNA
10499	22948	35930	0.41	8.0E-95	AF112152.1	LN L	Homo sepiens developmental arteries and neural crest EGF-like protein mRNA complete outs
11239	23607	36652	4.83	8.0E-95	10864024 NT		Homo sapiens HCF-binding transcription factor Zhanofe (ZF). mRNA
11415	23776	36834	2.1	8.0E-95	7019572 NT		Homo sapiens zinedin (ZIN), mRNA
11415	23776	38835	21	8.0E-95	7019572 NT		Homo sapiens zinedin (ZIN), mRNA

						2.6	
Probe SEQ ID NO:	Exon SEQ ID NQ:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
12296	24380		17.46	8.0E-95	AA629056.1	EST HUMAN	zu84b01.s1 Soeres_testis_NHT Hamo sepiens cDNA clone IMAGE:744649 3' similar to contains L1.t1 L1 receitifue element
289		25305	9.54	7.0E-95 D	87675.1	IN LA	Homo septems DNA for amyloid precursor profesion communications and
88			9.54	7.0E-95	87675.1	Į.	Homo sanjens DNA for amyold predition models complete cuts
2348	ŀ	27371	1.26	7.0E-95	M75973.1	Į.	Human hepatroxide growth factor game, even B
2348	- 1		1.26	7.0E-95 N		NT	Human hepatocyte growth factor game extra 8
4388	16910	29296	8.57	7.0E-95	195708.1	NT	Homo saplens Ly-6-like protein (CD59) mRNA complete Aic
4441	16991		1.44	7.0E-95	2	IN	Homo sanisma chromosome 24 segment HSS45045
218	12819	25235	0.82	3.0E-95	T	EST HUMAN	AV648381 GL Champ soulons CONA champ of Object of
2699	18284	30708	1.67	3.0E-95	Γ	EST HIMAN	802071448F1 NCI CCAD Brigat Home Strains Charles Class College College
5943	24596	31203	9.0	3.0E-95	3354	LN	Homo sapiens declicator of contributed to 1 (DODEA) The Contributed to 1 (
7608	20057	32909	0.42	3.0E-95	AA412321.1	EST HIMAN	297dol of Science abelia NIH Home confere CDMA
7608	20057	32910	0.42	3.0E-95	Γ	EST HIMAN	297401 11 Sogres bestie NHT Lond septems CDNA classical and classical an
7841	20281	33142	0,93	3.0E-95		EST HIMAN	EST370104 MAGE resembles MAGE Limited States Collections
7841	20281	33143	0.93	3.05-95	T	EST HIMAN	ESTATOR MAGE reseguences, WAGE U
9587	22010	34938	1.6	3.0E-95	7682289	L	Homo sanlane KIAA0783 gans product (VIAA0783 constant (VIAA0783 consta
9587	22010	34939	1.6	3.0E-95		T.N	Homo saniane KIAA0783 and product (NiAA0783), mKINA
10662	23102	36083	1.69	3.0E-95	R83190.1	EST HIMAN	VORZO11 1 Scarce fahal har entern ANEL 6 LL
1650	14181	26850	1.97	2.0E-95	7682027	L	The series KIA 10265 con and in the property of the control of the
1650	14181	26651	1.97	2.0E-95		Į.	Homo sanians KIAA0255 gaile product (NIAA0255), IMRNA
1892	14412	26010	27.07	100			Homo saplens tissue Inhibitor of metalloproteinese 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3)
1895	14415	26914	2 6	200-90	400/612		MKNA
2327	14834	27348	1 56	200.00	PESSONS.1	HOMAN	001312161F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3658862 5/
2327	14834	27349	156	205.05			Homo sapiens & protein-coupled receptor 19 (GPR19) mRNA
					COOKE		runio sabiens o protein-coupled receptor 19 (GPR19) mRNA
2362	14867	27387	3.15	2.0E-95 A	F240786.1	Į.	Homo sapiens grutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
2421	14924	27440	6:0	20E-95	4768423		Homo sapiens clivina clearane everten amban Li /
2521	15021		1.66	2.0E-95 R	16245.1	T HUMAN	Va49008 at Spares Infant healt ANIB Home employs all a face in a A Chester of the state of the s
2776	13514	25957	1.18	2.0E-95	4504374		Home sanians Higher 1 (commisment) (LEA) aduates COIN Guile INA GE: 33,383 3
3116	15669	28082	7.98	2.0E-95 AI	F01545		Homo sacians Usumin-camme mBNA complete ad-
3652	16094	28510	3.26	2.0E-95	7705900		Homo sablens unconventional maneta-48 (1 OC84458) DNA
3552	16094	28511	3.28	2.0E-95	7705900 NT		Homo saplens unconventional myosin-15 (LOCS148) mBMA
3612	16152	28560	0.82	2.0E-95,	2.0E-95 AB037807.1		Homo sapiens mRNA for KIAA1386 protein, partial cds

Burn III passaidy social love again	mon ORF SEQ Expression (Top) Hit Top Hit Acession (Top) Hit Top Hit Acession (Top) Hit Top Hit Descriptor Source Source	5283 26457 0.73 8.0E-98 BE907807.1 EST HUMAN 601497608F1 NIH MGC 70 Homo septens cDNA ctone IMAGE:3899761 5	2.9 8.0E-98 AW836047.1 EST HUMAN	38673 1.9 8.0E-96 BE005992.1 EST HUMAN	28863 0.93 7.0E-96 AF231920.1 NT	28252 1.07 6.0E-96 AL163201.2 NT	28421 7.49 6.0E-96 M26873.1 NT	30116 1.38 6.0E-96 AW448328.1 EST HUMAN	30117 1.38 6.0E-96 AW 449328.1 EST_HUMAN	31167 0.68 6.0E-86 11422642 NT	36709 5.64 8.0E-96 7662289 NT	36710 5.64 6.0E-96 7862289 NT	36758 3.48 8.0E-96 8923939 NT	36899 3.26 6.0E-86 7682289 NT	36900 3.28 6.0E-96 7662289 NT	25343 41.18 5.0E-a6 AB032998.1 NT	25866 4.1 5.0E-96 AB032998.1 NT	25867 4.1 5.0E-96 AB032998.1 NT	6.91 6.0E-96 11416767 NT	27955 0.76 6.0E-96 6912735 NT	2.04 6.0E-96 X60812.1 NT	30214 83.54 6.0E-96 AF264750.1 NT	32336 1.13 5.0E-86 AF149773.1 NT	32413 0.49 6.0E-96 AJ277557.1 NT Homo sablens dNT-2 cene for mitrochandrial 5//3/L-denovirhousis-particles (ANT-2 cene for mitrochandrial 5//3/L-denovirhousi-particles (ANT-2 cene for mitroc	32702 3.99 5.0E-96 11424399 NT	32703 3.99 5.0E-96 11424399[NT	32784 0.94 5.0E-96 AB023177.1 NT	33325 0.72 5.0E-96 AB024334.1 NT	34045 2.05 5.0E-98 M68347.1 NT	34046 2.05 6.0E-96 M68347.1 NT	8.93 3.0E-96 H68656.1 EST_HUMAN	4.68 2.0E-96 4503098 NT	25759 1.45 2.0E-98 AL163248.2 NT
		L	4			L					L	L				Ц															2		
	Exan D SEQ ID NO:	459 15283		59 23825	3921 16456	85 15834	3458 16002	47 17748	47 17748	5907 18485	99 23664	L		73 23831	73 23831		865 13420					6368 17866	14 19550	94 19618				8021 20453		ſ		432 13006	38 13328
	Probe SEQ ID NO:	4	5773	11259	క	37	ઠ	5,	5247	36	11299	112	11340	11473	11473	63			ล	শ	4	ଞ	۲		7166	7	7/	g	8,	8	4207	4	_

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4812	17324	29703	2.93	2.0E-96	BE148074.1	EST HUMAN	RC3-HT0230-040500-110-g02 HT0230 Homo saplens cDNA
6994	19531	32313	70.31	2.0E-98	BE222594.1	EST HUMAN	hu48e07.x1 NCI_CGAP_Bm41 Homo saplens cDNA clone IMAGE:3173316 3' similar to WP:C38D4.5 CE00918 HYPOTHETICAL 94.2 KD PROTEIN C38D4.6 IN CHROMOSOME III :
7949	20386	33262		2.0E-96	BF369731.1	EST HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
7949	20388	33253		2.0E-96		EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo saplens cDNA .
9327	21759		5.26	2.0E-96	AV689461.1	EST_HUMAN	AV689461 GKC Hamo saplens cDNA clone GKCFMD07 61
11709	24009		2.47	2.0E-96	AW249440.1	EST_HUMAN	2819351.5prime NIH_MGC_7 Hamo sapiens cDNA clane IMAGE:2819351 6'
069	13253	25670	2.9	1.0E-98	Y18890.1	N	Human endogenous retrovirus type K (HERV-K), gag, pot and env genes
1763	14290	28772	3.97	1.0E-96	AW955054.1	EST_HUMAN	EST367124 MAGE resequences, MAGC Homo sapions oDNA
1763	14290	26773	3.97	1.0E-98	AW955054.1	EST_HUMAN	EST367124 MAGE resequences, MAGC Homo sapiens cDNA
1821	14343			1.0E-96	4503756	IN	Homo saplens flavin containing monooxygenase 2 (FMO2) mRNA
1821	14343		2.92	1.05-96	4503756 NT	NT	Homo sapiens flavin containing monocogenase 2 (FMO2) mRNA
2168	15268		3.86	1.0E-96	U51472.2	N _T	Fells catus superfast myosin heavy chain (sMyHC) mRNA, complete cds
7381	18051	68606	1.12	1.0E-99	6912735 NT	IN	Homo sapiens transient receptor potential channel 5 (TRPCS), mRNA
7480	19684	32481	0.75	1.0E-96	6912455 NT	IN	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8787	21221	34126	1.19	1.0E-96	7861803 NT	E	Homo sapiens HSPC144 protein (HSPC144), mRNA
8787	21221	34127	1.19	1.0E-96	7661803 NT	NT	Homo saplens HSPC144 protein (HSPC144), mRNA
9146	21678	34484	25.68	1.0E-96	11419429 NT	TN	Homo saplens similar to ectonucleotide pyrophosphatase/phosphodlesterase 3 (H. saplens) (LOC83214), mRNA
9254	21686	34597	2	1.0E-96	AF274863.1	FA	Homo saplens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10810	23246	36231	2.66	1.0E-96	11428722 NT	NT	Homo sapiens A kinase (PRKA) anchor protein 2 (AKAP2), mRNA
11695	18004	30326	2.33	1.0E-96	4826863 NT	NT	Homo sapiens neuronal cell adheston molecute (NRCAM) mRNA
11695	18004	20327	2.33	1.0E-96	4826883 NT	TN	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
3296	15845	28263	9.0	6.0E-97	BF245240.1	EST_HUMAN	601863712F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4081202 5'
8072	20501		3.67	6.0E-97	BE141849.1	EST_HUMAN	IL5-HT0117-011099-004-D07 HT0117 Homo saplens cDNA
11161	23541		5.14		X15804.1	TN	Human mRNA for alpha-actinin
88	21078	33985	1.72	5.0E-97	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiems cDNA done DKFZp434N0323 5'
- 6	00770			10			z/97e12.s1 Soares_NhHMPu_S1 Homo septens cDNA done IMAGE:767758 3' similar to TR:G1304125
7 8	2000			5.0E-97		EST_HUMAN	G1304125 PMS4 MKNA;
	BL777					EST_HUMAN	RC0-B10812-250900-032-a09 BT0812 Homo sapiens cDNA
11300	23665					EST HUMAN	MR0-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
38	23665					EST_HUMAN	MR0-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
8	13516	25960	1.45	4.0E-97	BE004436.1	EST_HUMAN	CM0-BN0108-170300-283-a08 BN0108 Homo saplens cDNA

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Top Hit Descriptor	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNR2A) mRNA, complete cds	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNR2A) mRNA, complete cds	Homo saplens mRNA for GalNAc alpha-2, 6-slatyltransferase I, long form	Homo saplens mRNA for GalNAc alpha-2, 6-sialytransferase 1, long form	Homo saplens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA	Homo saplens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C,	Home sanions PDZ domain-containing quanting purdeottide exchance factor 1 (1 OC51735) mRNA	Homo sapiens ankyrin 2, neuronal (ANK2), transcript variant 2, mRNA	Homo saplens ankyrin 2, neuronal (ANK2), transcript variant 2, mRNA	Homo saplens were avian sercome (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA	Homo sapians cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA	Homo sapien's mRNA for KIAA0594 protein, partial cds	Homo saplens mRNA for KIAA0594 protein, partial cds	Homo saplans mRNA, similar to rat myomegalin, complete ods	Homo saplens neuroendocrine differentiation factor mRNA, complete cds	Homo saplens G-2 and S-phase expressed 1 (GTSE1), mRNA	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo saplens amyoid beta (A4) precursor protein (protease nextn-ll, Alzheimer disease) (APP), mRNA	Homo saplens amyloid beta (A4) precursor protein (protease nextn-1, Aizheimer disease) (APP), mRNA	Homo saplens N-myc (and STAT) Interactor (NMI), mRNA	Human beta-prime-adaptin (BAM22) gene, exon 7	Human alpha-1-antitrypsin gene (S variant), complete cds	Homo saplens pericentrin (PCNT) mRNA	Homo saplens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	601339520F1 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:3681821 5'	Homo sapiens phosphorylase kinase, gamma 1 (muscle) (PHKG1) mRNA	y/38c08.s1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA done IMAGE:129134 3'	Homo saplens KIAA0649 gene product (KIAA0649), mRNA	Homo saplens KIAA0649 gene product (KIAA0649), mRNA	Homo saplens ribosomal protein S15 (RPS15), mRNA
Top Hit Database Source	본	TN	Z	NT NT	NT	FX	Ŀ	L	Ę	NT.	N	N	L	N	LN L	E	FZ	N.	Ę	L L	k	NT	Į.	FN	- L	EST HUMAN	IN	EST_HUMAN	TN	TN	LN.
Top Hit Acession No.	4557326 NT	109002.1	J09002.1	711339.2	711339.2	7710126 NT	144224EE NIT	TAN CARACT	10947063 NT	10947053 NT	11421783 NT	11423233 NT	\B011166.1	AB011166.1	4B042557.1		11418318 NT	AB032998.1	4502166 NT	4502166 NT	4758813 NT	J36255.1	K02212.1	5174478 NT	4503470 NT	BE566486.1	5453881 NT	R10887.1	11427767 NT	11427757 NT	11426272 NT
Most Similar (Top) Hit BLAST E Value	4.0E-97	-	4.0E-97 L		-	4.0E-97	4 OE-07	4 OF-07	4.0E-97	4.0E-97	4.0E-97	4.0E-97	١~	4.0E-97	4.0E-97	4.0E-97	4.0E-97	3.0E-97		3.0E-97	3.0E-97	╒	3.0E-97 K	3.0E-97		1.0E-97	1.0E-97		1.0E-97	1.0E-97	1.0E-97
Expression Signal	0.81	0.57	0.57	6.41	6.41	1.21	80	0 47	0.45	0.45	1.54	2.78	1.25	1.25	3.11	1,95	4.83	1.08	13.11	13.11	1.68	3.55	6.73	0.94	26.25	2.77	19.0	1.26	2.28	2.28	52.39
ORF SEQ ID NO:	31077	31412	31413	32644		32781	50565		33804		34242		34897	34898	35807	36790		25272	25900	26901	26469		28098								35845
Exon SEQ ID NO:	18410	18711				19947	70204	L	20909	20909	. 21331	21514	21974	21974	22836	23731		12855	13452	13462	15311	15269				1		1	22941		22871
Probe SEQ ID NO:	6830	6143	6143	7216	7216	7444	7500	8198	8497	8497	2689	9082	9511	9511	11184	11369	11900	258	897	897	1470	2338	3129	3221	4832	6766	7306	9876	10491	10491	11219

Table 4 Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptar
11219	22871	35846	52.39	1.0E-97	11426272 NT		Homo sapiens ribosomal protein S15 (RPS15), mRNA
924	13478	ŀ	2.43	9.0E-98	9.0E-98 BE090973.1	EST HUMAN	PM4-BT0724-010400-008-a12 BT0724 Homo saplens cDNA
1309	1		3.31	9.0E-98	8393092 NT		Homo saplens cat eye syndrome critical region gene 1 (CECR1), mRNA
4716	17232		14.78	9.0E-98	8400716 NT		Homo sapiens nebulin (NEB), mRNA
5387	17884	30243	1.02	9.0E-98	11419594 NT		Homo sapiens FSH primary response (LRPR1, rat) homolog 1 (FSHFRH1), mKNA
9630	19179		0.78		AJ250713.1		Homo saplens CLDN12 gene for daudin-12
7747	20191	33052	0.57	9.0E-98			Homo sapiens leucy-tRNA synthetase, mitochondrial (KIAA0028), mKNA
7865			0.61		1	TN	Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), mKNA
8228	21014	33914	6.2	9.0E-98	TN 6118914	NT	Homo sapiens death-associated protein (DAP), mRNA
8579	L	33915	6.2	86-30.6	4758119 NT	LN LN	Homo sapiens death-associated protein (DAP), mRNA
9420	21852	34768	3.29	9.0E-98	X06989.1	NT	Human mRNA for amyloid A4(751) protein
9484		34848	1.3	86- <u>3</u> 0.6	11321580 NT	M	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9545	<u> </u>		1.49		3037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
9577			1.08	9.0E-98 A	-057726.1	NT	Homo saplens 17-beta-hydroxysterdid dehydrogenase IV (HSD17B4) gene, excn 8
	L						Homo saplens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a,
9597	22077	35003	1.15	9.0E-98	. 4507070 NT	K	member 3 (SMARCA3) mRNA
	<u> </u>			1			Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a,
9597	22077	35004	1.15			IN	member 3 (SMARCA3) mRNA
10784	23222	38205		9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA 1005 protein, partial cds
10784	23222	36206	2.15	9.0E-98	AB0232	NT	Homo capiens mRNA for KIAA1005 protein, partial cds
10849	23282	36272	1.99				Homo saplens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), mRNA
11914	13478		2.64		BE090973.1	EST_HUMAN	PM4-BT0724-010400-008-a12 BT0724 Homo saplens cDNA
25	12645		1.26	8.0E-98	AJ251158.1	F	Homo sapiens partial MICB gene for MHC class I chain-related protein B, exons 2-3 and joined CDS
1405		26395			AB033768.1	ΤN	Home sapiens hPAD-colony10 mRNA for peptidylarginine delminase type I, complete cds
1581	14112		0.94	8.0E-98	5031810 NT	۲N	Homo sapiens IL2-inducible T-cell kinase (TTK), mRNA
1681	_		0.94	8.0E-98	5031810 NT	N-	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1723	L			L	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partel cds
1723	14251	1 26736		8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3586	16128					NT	Homo saplens 959 kb contig between AML1 and CBR1 on chromosome Z1qZ2; segment 1/3
3586	16128	3 28542			AJ229041.1	LN	Homo saplens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
3798		5 28737	7.73		J04469.1	님	Human mitochondrial creatine kinase (CKM1) gene, complete cds
6390	18947					EST HUMAN	601507503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909097 3
2536	15034	4 27550	1.62	3.0E-98	AB014607.1	N	Homo saplens mRNA for KIAA0707 protein, partal cds

) 		
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Tap Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
. 472	13046	25467	2.86	1.0E-98	AW998611.1	EST_HUMAN	PM0-BN0065-100300-001-c06 BN0065 Hamo sapiens cDNA
1774	14299	26786	27.68	1.0E-98	N49818.1	EST_HUMAN	yv23f06.r1 Soeres fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243585 5' similar to PIR:S54204 S54204 ribosomal protein L29 - human ;
9299	18158	30522	4.44	1.0E-98	AA195854.1	EST HUMAN	zp98c09.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:G806562 G806562 NEBULIN.;
6834		31083	1.71	1.0E-98	BE390627.1	EST HUMAN	601284986F1 NIH_MGC_44 Homo sepiens cDNA clone IMACE:3606692 5'
5834	18414	31084	1.71	1.0E-98	BE390627.1	EST_HUMAN	601284986F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3606692 5'
8340	21772	34676	0.94	1.0E-98	AF141349.1	N	Homo saplens beta-tubulin mRNA, complete cds
9340	21772	34877	0.94	1.0E-98	AF141349.1	LN.	Homo sapiens beta-tubulin mRNA, complete cds
6103	18672	31367	1.06	66-30'6	Al905004.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
6103			1.06	6 0-3 0'6	A1905004.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
6346	18904	31638	474	66-30'6	AW968635.1	EST_HUMAN	EST380711 MAGE resequences, MAGJ Homo sapiens cDNA
10902	23334	. 36337	12.81	9.0E-99	AI479829.1	EST_HUMAN	tm99h07.x1 NCI_CGAP_Bnz5 Horno saptens cDNA clone IMAGE:2163421 3' similar to SW:BID_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST;
10902	23334	36338	12.81	66-30 6	Al479829.1	EST_HUMAN	tm69h07.x1 NCI_CGAP_Brn26 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BID_HUMAN P65957 BH3 INTERACTING DOMAIN DEATH AGONIST;
11167	23547	36587	2.17	66-30'6	AA134604.1	EST_HUMAN	zл90d02.rl Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' similar to TR:G662994 G662994 GPI-ANCHORED PROTEIN P137. :
9155	21587	34495	1.41	8.0E-99	9635487 NT	LN	Human endogenous retrovirus, complete genome
6120	18689	31387	10.26	7.0E-99	AF035808.1	LN.	Homo sapiens oscillin (hLn) gene, exon 5
11356	23719	36779	2.3	66-30' <i>L</i>	AF001886.1	N _T	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
489			7.70	6.0E-99	U10991.1	TN	Human G2 protein mRNA, partial cds
2046	14562	27074		8.0E-99		NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, (LOC51232), mRNA
2046	14562	27075	1.36	66-30'9	11430555 NT	FN	Homo sepiens cystelne-rich repeat-containing protein S52 precursor, (LOC51232), mRNA
3898	16433		1.94	66-30'9	AW976364.1	EST_HUMAN	EST388473 MAGE resequences, MAGN Homo sapiens cDNA
4801	17316		1.43	66-30'9	4502660 NT	FZ.	Homo sapiens CD34 antigen (CD34) mRNA
6954		32271	1.19	6.0E-99	7708136 NT	FN	Homo sapiens GAP-like protein (LOC51308), mRNA
7047		32375	68.0	66-30'9	L43610.1	N.	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
7047	19581	32376	0.83	66-30'9	L43610.1	IN	Homo sepiens polycystic kidney disease (PKD1) gene, exons 27-30
8708	21141		1.49	66-30'9	X99101.1	IN	H.sapiens mRNA for estrogen receptor
9187			27	6.0E-99	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete ods
9262	_				AF080255.1	NT	Homo sapiens lodestar protein mRNA, complete cds
9262	- 1		6.6		AF080255.1	L	Homo sepiens lodestar protein mRNA, complete cds
10505	22954	35935	3.95	6.0E-99	11526299 NT	LN.	Homo saplens BH3 Interacting domain death agonist (BID), mRNA

	Top Hit Database Source	Homo saplens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA	Homo sepiens UDP-glucose:glycoprotein glucosytransferase 1 (HUGT1), mRNA			Homo sepiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region	EST_HUMAN 601513157F1 NIH_MGQ_71 Home sapiens cDNA clone IMAGE:3914391 5		xp09e08.x1 NCL CGAP_HN9 Homo saplens cDNA clone IMAGE:2739874 3' similer to gb:M31212 MYOSIN EST HUMAN LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);				T HUMAN														Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA			hd02h02x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2808371 3' similar to TR:002711 EST_HUMAN 002711 PRO-POL-DUTPASE POLYPROTEIN	
-	Top Hit Apession No.	TN 6220166	9910279 NT	J35464.1 NT	J35464.1 NT	AF009660.1 NT	BE890177.1 EST	M95586.1 NT	AW274792.1 EST	M30938.1 NT	AF095703.1 NT	AF257737.1 NT		2		11528150 NT	M30938.1	AF192523.1 NT	AF192523.1 NT	J03171.1 NT				AF149774.1 NT	7882349 NT	11421007 NT	11421007 NT	X98022.1	11419721 NT	AW340174.1 EST	7427514 NT
	Most Similar (Top) Hit BLAST E Value	6.0E-99	6.0E-99	5.0E-99 (5.0E-99	5.0E-99	_	3.0E-99	2.0E-99 /	2.0E-99 N	2.0E-99	2.0E-99 /				1.0E-99	1.0E-99 N						1.0E-99 /		1.0E-99	1.0E-99	1.0E-99	1.0E-99	1.0E-89	1.0E-99	1.0E-99
	Expression Signal	1.9	1.9	1.36	1.36	2.01	2.57	4.98	12.88	1.13	3.22	0.55	10.43	4.86	1.5	1.18	1.49	66:0	0.99	1.03	2.58	2.58	0.68	0.66	0.68	1.31	1.31	0.76	1.27	1.53	4.3
	ORF SEQ ID NO:	35830				29505				28191	29483	33520	34480	36320	25340		28445	26573	26574	28011	29309	28310	30300		ĺ	_ [32874			36355
	Exan SEQ ID NO:			13498	13496	17117	24145	21301	13809	15771	17095	20631	21573	23321	12922	j		1	J	15801	16924	16924	J	- 1	18595	19905			21905		23347
	Probe SEQ ID NO:	11205	11205	843	943	4601	11929	8867	1272	3219	4579	8211	9141	10889	329	394	1452	1578	1578	3047	4402	4402	5456	5456	9021	7184	798	7579	9474	9707	10915

ľ							
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10916	23347	36356	4.3	1.0E-99	7427514 NT	TN	Homo saplens huntingtin interacting protein 1 (HIP1), mRNA
11132	23584		3.77	1.0E-99	1.0E-99 AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11678	23987		4.1	1.0E-99	1.0E-99 AF240786.1	N.	Homo saplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete ods
-	12623	25010	1.72	1.0E-100		NT	Homo sapiens chromosome 21 segment HS21C047
2	12623		23	1.0E-100	AL163247.2	N	Homo saplens chromosome 21 segment HS21C047
71	12690	86097	1.84	1.0E-100	11418230 NT	LN LN	Homo saplens Testis-specific XK-related protein on Y (XKRY), mRNA
71	12690		1.84	1.0E-100	11418230 NT	N	Homo saplens Testis-specific XK-related protein on Y (XKRY), mRNA
88	12706		1	1.0E-100	1.0E-100 AW275237.1	EST_HUMAN	xv78b11.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2824605 3'
173	12777		1.46	1.0E-100		NT	Homo saplens chromosome 21 segment HS21C006
331	12924		1.19			MT	Homo sapiens chromosome 21 segment HS21C049
357	12947	25361	2.69	•	1.0E-100 T05087.1	EST_HUMAN	EST02975 Fetal brain, Stratagene (ca#836208) Homo sapiens cDNA clone HFBCR32
454	13029		1.8			L	Homo septens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat rections
507	13081		80			Į.	G.gorilla DNA for ZNF80 gene homolog
527	13099		1.19		=	EST HUMAN	RC3-HT0625-040500-022-b09 HT0625 Homo sapiens cDNA
1045	13591	26030	2.86		31685	N	Homo sepiens DKFZP588M0122 protein (DKFZP586M0122), mRNA
1045	13591	26031			1.0E-100 7661685 NT	F	Homo saplens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1569	14101		1.1	1.0E-100	П	EST_HUMAN	UI-H-BI1-afk-c-07-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3'
1574	14105	26568	1.54	1.0E-100	1.0E-100 AI200857.1	EST HUMAN	qf62f09.x1 Soares. testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA P81081 CYSTATIN:
2151	14664		6.9			NT	Rat mRNA for short type PB-cadharin, complete cds
2337	14843	27359	9.64	1.0E-100	X62468.1	¥	H. septens mRNA for IFN-gamma (pKC-0)
2656	15149		1.41	1.0E-100	11418976 NT	Į.	Homo seplens KiAA0957 protein (KIAA0957), mRNA
2978	15533		3.45	1.0E-100		NT	Homo saplens RGH2 gene, retrovirus-like element
4225	16750	29141	2.04		1.0E-100 AF057354.1	NT	Homo sepiens myotubularin-related protein 1a mRNA, partial cds
4253	16778		2.35		4503792 NT	N P	Homo saplens follicle stimulating hormone receptor (FSHR) mRNA
5226	17728			1.0E-100	5032104 NT	F	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
6226	17728		2.99	1.0E-100	5032104 NT	Z	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5541	18131	30488	1.64	1.0E-100 B	F244218.1	EST_HUMAN	601863164F1 NIH_MGC_57 Homo sepiens cDNA clone IMAGE:4080999 57
6770	18361	30810	86.0		1.0E-100 AW075983.1	EST HUMAN	xa82f01.x1 NCI_CGAP_CML1 Homo saplens cDNA clone IMAGE:2573305 3' similar to gb:X12433 PROTEIN PHPS1-2 (HUMAN);
5971	18547				Γ	EST_HUMAN	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003048 5
6024	18598	31285	2.04	1.0E-100	1.0E-100 AF135116.1	M	Homo sapiens NF-E2-related factor 3 gene, complete cds

1		_	_	_	_	_	т	T-	1		т	_	_	_	_	т-	_	_	_	_	•	т-		_	_	_	1	_	_	Т	-	т-	_	_
Bina III rassa Ityl assa III rail	Top Hit Descriptor	Human mRNA for plasma Inter-alpha-trypsin Inhibitor heavy chain H(3)	Homo saplens ER to nucleus signalling 1 (ERN1) mRNA	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	AU140214 PLACE2 Hamo seplens cDNA clone PLACE2000137 6	AU136800 PLACE1 Homo sepiens cDNA clone PLACE1005089 5'	y738c08.s1 Scares fatal liver spleen 1NFLS Hamo sapiens cDNA clone IMAGE:1291343'	Homo sepiens Rho GTPese activating protein 6 (ARHGAP6), transcript variant 4, mRNA	4e33b06.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897597 6' similar to TR:G487418 G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN.	ae33b08.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897687 6' similar to TR:G487418	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN.;	MR1-1N0048-060900-004-b05 TN0046 Homo sapiens cDNA	MR1-TN0048-060900-004-b05 TN0046 Homo saplens cDNA	Human mRNA for kidney epidermal growth factor (EGF) precursor	Homo saplens Rad50 (Rad50) mRNA, complete cds	Homo sapiens Red50 (Red50) mRNA, complete cds	Homo saplens GLI3 gene for GLI3 protein	601647357F1 NIH_MGC_61 Homo sepiens cDNA clone IMAGE:3831310 5	Homo sapiens chromosome 21 segment HS210003	Homo saplens mRNA for KIAA1485 protein, partial cds	w37g09.x1 NCI_CGAP_Pr28 Hono sapiens cDNA clone IMAGE:2489920 3' similar to contains element	MER22 repetitive element;	PMo-BN0065-100300-001-c06 BN0065 Homo capiens cDNA	AU127720 NT2RP2 Homo sapiens cDNA clone NT2RP2001918 6'	Homo sapiens mRNA for KIAA1626 protein, pardal ods	Homo saplens mRNA for KIAA1628 protein, partial cds	hh83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAQE:2869396 5'	hh83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2989398 5'	602020554F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156165 51	Human endogenous retrovirus HERV-K, pol gene	MR0-BN0070-270300-008-h11 BN0070 Homo saplens cDNA	H.sapiens CD97 gene exon 4	H.saplens CD97 gene exon 4
פום באסון בוסא	Top Hit Database Source	TN	IN	TN	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	7382479 NT	EST HUMAN		EST HUMAN	EST HUMAN	EST_HUMAN	М	NT	IN	ZI TZ	EST_HUMAN	IN	IN		EST HUMAN	EST_HUMAN	EST_HUMAN	TN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	NT	NT
5	Top Hit Acession No.	X14690.1	4557568 NT	4557568 NT	5729867 NT	4U140214.1	AU136800.1	R10887.1	7382479	4A496841.1		QA496841.1	3F378478.1	BF376478.1	X04571.1	J63139.1	J63139.1	4J250408.1	3F103853.1	4L163203.2	AB040918.1		41972388.1	4W998611.1	4U127720.1	AB046846.1	AB046846.1	AW630487.1		3F347519.1	/10391.1	3F327292.1	K94633.1	(94633.1
	Most Similar (Top) Hit BLAST E Value	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	10,	1.05-100	_	_	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100		1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100		1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100)
	Expression Signal	0.91	. 0.85	0.85	0.41	7.07	0.58	1.37	1.22	1.25	16 7	1.25	1.2/	1.27	5.64	0.41	0.41	0.47	2.63	3.71	3.09		1.87	1.72	0.95	2.26	2.28	1.66	1.66	1	1.6	6.52	10	4
	ORF SEQ ID NO:	31390	31769				,	32383	32684	32687									34364		34854			33830						35722				36509
	Exan SEQ ID NO:	18693							19864	19849		19848			ı	- 1	l				21930	_				_		_	_				1	23482
	Probe SEQ ID NO:	6124	6477	8477	8776	6846	8905	7055	7151	7237	1321	1637	8	7291	7289	8268	8268	8511	9021	9048	8488		9260	9842	9884	9754	9754	8927	9927	10355	10409	10540	11056	11056

, Top Hit Descriptor	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene	Hamo sepiens 14q32 Jegged2 gene, complete cds; and unknown gene	Homo sapiens golgin-like protein (GLP) gene, complete cds	zk89s03.r1 Scares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:489964 5		Homo seplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) nemes, complete cds	7q88h03.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE: 3' similar to TR:Q21997 Q21997 COSMID R151 72 TR:OBLIA08	Homo eaplens SH3-domain binding protein 1 (SH3BP1), mRNA	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA	Homo sapiens SEC14 (S. cerevislae)-like 2 (SEC14L2), mRNA	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA	Homo sapiens mRNA for KIAA0446 protein, partial cds	Homo saplens ventral antarior homeobox 2 (VAX2), mRNA	Homo sapiens ventral antarior homeobox 2 (VAX2), mRNA	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	Homo sapiens phosphoribosy/giycinamide formytransferase, phosphoribosy/giycinamide synthetase, phosphoribosy/aminoimidazole synthetase (GART) mRNA	Homo saplens of cardiac alpha-myosin heavy chain gene	602156474F1 NIH_MGC_83 Homo saplens cDNA clone IMAGE:4297291 5:	qg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:1843336 3'	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo saplens carboxypeptidase A1 (pancreatic) (CPA1) mRNA	RC3-ST0281-160600-016-h09 ST0281 Homo septens cDNA	Hamo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA	H,sapiens EWS gene, exon 6	Homo sapiens RiBilR gene (partial), exon 12	Homo sapiens RIBIIR gene (partial), exon 12	Homo sapiens genomic downstream Rhesus box
Top Hit Database Source	TN	TN	LN	EST_HUMAN	EST_HUMAN	-N	EST LIMAN		12	Z	Į.	N	LN	IN	NT	INT	TN	ΓN	EST_HUMAN	EST_HUMAN	NT	INT	INT	INT	i. I	EST_HUMAN	INT	NT	NT	NT	NT
Top Hit Acesslan No.	1.0E-100 AF111170.3	(F111170.3	1.0E-100 AF266285.1	1.0E-100 AA115605.1	1.0E-100 AA116605.1	1E240786 4	E446640 4	11545732	11418123 NT	11417974 NT	7110714 NT	7110714 NT	AB007915.2	7110734 NT	7110734 NT	7657454 NT	- 4503914 NT	220656.1	1.0E-101 BF681218.1	AI221878.1	5921460 NT	5921460 NT	7682183 NT	7662183 NT	4502996 NT	BE84307	5729892 NT	X72993.1	1.0E-101 AJ237744.1	1.0E-101 AJ237744.1	1.0E-101 AJ252312.1
Most Similar (Top) Hit BLAST E Value	1.0E-100	1.0E-100 AI	1.0E-100 /	1.0E-100	1.0E-100	4 00 40	4 00 400	1 OF-100	105-100	1.0E-100	1.0E-101	1.0E-101		1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101 Z20656.1	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101		1.0E-101	1.0E-101	1.0E-101 X72993.1	1.0E-101	1	
Expression Signal	4.89	4.89	2.27	1.96	1.96		3	2 98	1 25	4.25				7.04	7.04	1.3	1.21	1.19	11.89	1.28	1.23	1.23	1.22					68.3	6.32	6.32	13.66
ORF SEQ ID NO:	36604	L		L	36885			30071	l				25684			L	25879	L		26063	26600			5 26762	3 26915	3 27007	27273	4 27561	27703	27704	#
Exan SEO ID NO:	23584	23564	L	L	L	<u> </u>	<u> </u>	24820	1	1.	L	L	L	L	<u> </u>	13351	13431	L	L	13624	14132	14132	14285	14265		14498	1	15044	15190	1	1
Probe SEQ ID NO:	11111	11111	11414	11463	11463		98011	11/33	1247	12589	8	8	706	724	724	793	876	848	191	1078	1600	1600	1738	1738	1896	1982	2245	2545	2700	2700	2908

							6.
Probe SEQ ID S NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Databese Source	Top Hit Descriptor
3159	15712	28133	3.13	1.0E-101	4885270 NT	TN	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
3200	15752		2.47	1.0E-101	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_68 Hamo sapiens cDNA clane IMAGE:3862086 6"
3358	15904	28324	1.98	1.0E-101	AW965566.1	EST_HUMAN	EST377629 MAGE resequences, MAGI Hamo saplens cDNA
3378	15190		2.36	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
3378	15190	27704	2.36	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
3884	16419	28823	4.08	1.0E-101	AB022785.1	NT	Homo sapiens ASHZL gene, complete cds, similar to Drosophila ash2 gene
5141	17648		1.48	1.0E-101	5921460 NT	TN	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5141	17845		1.48	1.0E-101	5921460 NT	LN	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
. 5571	18159	30523	1.36	1.0E-101	AW965139.1	EST_HUMAN	EST377212 MAGE resequences, MAGI Homo saplens cDNA
9089	18867		5.11	1.0E-101	7427512 NT	L	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6306	18867		5.11	1.0E-101	7427512 NT	TN	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
7065	19599	32396	1.25	1.0E-101	11430734 NT	TN	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7727	20171		1.34	1.0E-101	11545780 NT	TN	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7784	20226		5.33	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7784	20226		6.33	1.0E-101	AF208970.1	LN	Homo sapiens Kruppal-type zho finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7976	20412	33281	5.82	1.0E-101	AW008475.1	EST HUMAN	wv56f12.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2533487 3'
8091	20518		1.96	1.0E-101		EST_HUMAN	601109217F1 NIH_MGC_16 Home sapiens cDNA clone IMAGE:3349901 6'
8270	20687	33580	7.33	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo saplens cDNA
8673	21108	34010	3.65	1.0E-101	BF029174.1	EST_HUMAN	601764688F1 NIH_MGC_53 Homo saplens cDNA clone IMAGE:3996837 5
8988	21302	34211	1.09	1.0E-101	AW630070.1	EST_HUMAN	hh74g10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143 INTERFERON-GAMIMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
8988	21302	34212	1.09	1.0E-101	AW630070.1	EST HUMAN	hh74g10.y1 NCI_CGAP_GU1 Homo saplens cDNA clone IMAGE:2968579 6' similar to gb:J03143 INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
ţ	04.77.0	90070		707 107	, , , , , , , , , , , , , , , , , , , ,		2K29g08.rf Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:471998 6' similar to
9577	21004		1.02		T	NAMOL I PN	TIN, SCHOOL SCHOOL TOSSESSONS OF PROBER A PROBER
9571	7.00	L	102	1 0F-101	Τ	TN	Homo sabiens mRNA for KIAA1351 protein partial cds
9865	20955	L	17.39			NT	Human mRNA for pancreatic gamma-clutamytransferase
3885	20855	L	17.39			TN	Human mRNA for pancreatic gamma-glutamytransferase
9874	22021		21.3	L	9845492 NT	N	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
9870	22273	35213	8.9	1.0E-101	BE619667.1	EST HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
9870	22273				BE619687.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
10309	22709	35675	2.15	1.0E-101	11429127 NT	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA

Most Similar Top Hit Acession (Top) Hit Top Hit Acession Signal BLAST E No. Source Source
1.86 1.0E-101 AI570283.1 EST_HUMAN
1.86 1.0E-101 A(570293.1 EST_HUMAN
4.62 1.0E-101 S38327.1 NT
1.73 1.0E-101 AB020628.1 NT
23.8 1.0E-101 AA321316.1 EST_HUMAN
1.0E-102 AF012872.1
4.88 1.0E-102 AL163303.2 (NT
BE25247
1.83 1.0E-102 4557534 NT.
2.78 1.0E-102 M10976.1 NT
1.0E-102 11437146 NT
128.87 1.0E-102 BE408447.1 EST_HUMAN
1.6 1.0E-102 A1124689.1 EST_HUMAN
1.6 1.0E-102 A1124669.1 EST_HUMAN
0.81 1.0E-102 Y13832.1 NT
1.43 1.0E-102 7681979 NT
3 1.0E-102 AU141005.1 EST_HUMAN
3 1.0E-102 AU141005.1 EST_HUMAN
2.62 1.0E-102 BE251310.1 EST_HUMAN
5.58 1.0E-102 6006002 NT
5.58 1.0E-102 6006002 NT
1.39 1.0E-102 R66488.1 EST_HUMAN
1.88 1.0E-102 AF067133.1 NT
4.41 1.0E-102 AB034951.1 NT
3.41 1.0E-102 7705398 NT

					,		6
Probe E SEQ ID SE NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
6075	18646	31341	0.83	1.0E-102	11433046 NT	Z.	Homo saplens hect domain and RLD 2 (HERC2), mRNA
[_							ar8209x1 Barstead colon HPLRB7 Homo saplens cDNA clone IMAGE:2151785 3' similar to TR:Q13137
	19168	31921	3.43	1.0E-102	1.0E-102 AI459825.1	EST_HUMAN	Q13137 NDP52;
	19715	32518	0.49	1.0E-102	1	EST_HUMAN	UI-H-Bi3-alj-d-10-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736835 31
	20026	32870	0.79	1.0E-102		EST_HUMAN	801581505F1 NIH_MGC_20 Homo seplens cDNA clone IMAGE:3831241 5'
7607	20056	32908	1.05	1.0E-102	1.0E-102 BE386106.1	EST_HUMAN	601277215F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618243 5'
	20177	33037	0.85	1.0E-102		NT	Homo sapiens mRNA for KIAA0960 protein, partial ods
7825	20266	33127	6.23			IN	Homo saplens mRNA for Centaurin-elpha2 protein
	20578	33455	2.94		1.0E-102 AV710738.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone CuAAKD03 5
8469	20882	33780	0.42	1.05-102	11420841 NT	Z	Homo sapisns GLI-Kruppel family member GLI3 (Greig cephalopolysyndactyly syndrome) (GLI3), mRNA
8507	20919	33815	0.54	1.0E-102	10947053 NT	Z.	Homo sapiens enkyrin 2, neuronal (ANK2), transcript variant 2, mRNA
8795	21229	34138	4.28	1.0E-102	BE763051.1	EST_HUMAN	QV3-NT0025-210600-236-h08 NT0025 Homo septens cDNA
	21989	34915	1.82	1.0E-102	T70393.1	EST_HUMAN	ydr3d07.rf Soares fetal liver spleen 1NFLS Homo seplens cDNA clone IMAGE:67021 5'
	21989	34918	1.82	1.0E-102	170393.1	EST_HUMAN	yd13d07.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:67021 5'
	22043	34975		1.0E-102	U124629.1	EST_HUMAN	AU124629 NT2RM4 Homo sepiens cDNA clone NT2RM4000309 5'
	22754	35720	2.78	1.0E-102 A	1905037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo saplens cDNA
10354	22754	. 35721	2.78	1.0E-102	1905037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo saplens cDNA
10393	22793	35764	2.19	1.0E-102	AA970786.1	EST HUMAN	on57h04.s1 Soarse_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to SW:CAV2_HUMAN P51636 CAVEOLIN.2. [1];
	23283	36273			BE897468.1	EST_HUMAN	601439392F1 NIH_MGC_72 Homo sepiens cDNA done IMAGE:3924166 5
	23288	36279		1.0E-102	4507822 NT	TN	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
1	23288	36280	4.62	1.0E-102	4507822 NT	M	Homo saplens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
	23303	36297	1.89	1.0E-102	AA490201.1	EST_HUMAN	aa44h06.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:823835 5'
11169	23639	36577	2.83	1.0E-102	BF359243.1	EST_HUMAN	RC6-ET0072-150600-011-F01 ET0072 Homo saplens cDNA
11432	23793	36855	2.87	1.0E-102	U41302.1	Ę	Human chromosome 16 creatine transporter (SLOGAB) and (CDM) paralogous genes, complete cds
	23849	36918	3.8	1.0E-102	U57053.1	N.	Human unconventional myosin-ID (MYO1F) gene, partial cds
	23936		2.81	1.0E-102	AL163280.2	5	Homo saplens chromosome 21 segment HS21C080
12191	24311	30911	6.03	1.0E-102	AW300862.1	EST_HUMAN	XIOTC12.X1 NCI_CGAP_Co20 Homo sepiens cDNA clone IMAGE:2685038 3'
12243	24346	30923	1.35	1.0E-102	11419169 NT	N F	Homo sapiens myeloid/lymphold or mixed-lineage leukamia (trithorax (Drosophila) homolog); translocated to, 4 (MILT4), mRNA
12527	24524		3.43		J05235.1	L	Human gamma-glutamy/ transpeptidase mRNA, complete cds
72	12691	25100	1.49	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo septens cDNA done IMAGE:3902305 5

Top Hit Descriptor	tm58b05.x7 NOI_CGAP_Bm26 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS200, DXS230, DXS289, DXS289, DXS289, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA	Homo saplens dystrophin (muscular dystrophy, Duchenne and Becker types), Includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS289, DXS2	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene	EST377849 MAGE resequences, MAGI Homo sapiens cDNA	601571537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE;3838545 5	tm68b05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;	tm68b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13789 ANONYMOUS.	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5	7160603.x1 Sogres_NSF_F8_9W_OT_PA_P_S1 Hamp sepiens cDNA done IMAGE:3625864 3' sImilar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1;	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA	Homo sepiens triple functional domain (PTPRF Interacting) (TRIO), mRNA	nd13e02.s1 NCI_CGAP_Ov1 Homo sepiens cDNA done IMAGE:800162 3' similar to gb1.02426 26S PROTEASE SUBUNIT 4 (HUMAN);	H.saplens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)	EST375749 MAGE resequences, MAGH Homo saplens cDNA	au51g04.y1 Schneider fetal brain 00004 Horno sapiens cDNA clone IMAGE:2618326 6' similar to TR:015046 015048 KIAA0338;	7b41f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3230813 3' similar to gb:M69043 MAJOR HISTOCOMPATIBILITY COMPLEX ENHANCER-BINDING PROTEIN (HUMAN);	olozdo6. 56 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1622283 5' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING:	Homo sapiens AXL receptor tyrosine kinase (AXL), InRNA	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
Top Hit Database Source	EST_HUMAN. Q1376						Г		EST HUMAN Q1378	HUMAN	HUMAN	EST HUMAN SW:P			EST_HUMAN PROT		EST_HUMAN EST3		EST HUMAN HISTO	alozak EST HUMAN PHOS		
rop Hit Acession Na.	590071.1	5032282 NT	6032282 NT	11431100 NT	12898	W965776.1			1590071.1	U140344.1	Γ	1.0E-103 BF109244.1 ES	6005921 NT	6005921 NT	1.0E-103 AA581086.1 ES		6.1	1878956.1	E549706.1		24061	11424081 NT
Most Similar (Top) Hit BLAST E Value	1.0E-103 A	1.0E-103	1.0E-103	1.0E-103	1.0E-103 A.	1.0E-103	1.0E-103 B	1.0E-103 A	1.0E-103 A	1.0E-103 A	1.0E-103 A	1.0E-103 B	1.0E-103	1.0E-103	1.0E-103 A	1.0E-103 Z37976.1	1.0E-103	1.0E-103 A	1.0E-103 B	1.0E-103 AI792759.1	1.0E-103	1.0E-103
Expression Signal	1.59	1.81	8.	1.05	1.28	1.4	3.99	49.4	4.64	1.09	1.09	1.2	3.58	3.58	0.9	1.95	2.36	11.32	21.38	5.63	4.38	4.38
ORF SEQ ID NO:	32424	30432	30433				33089		33642			34477		34762		35440			35869	35944	36045	Ц
Exon SEO ID NO:	19826	18018	.18018	18054			20242	20748	20746			21570	21847	21847	21870	22483		22605	22890	22965		l
Probe SEQ ID NO:	7093	7244	7244	7384	7462	7675	7800	8331	8331	9083	9083	9138	9415	9415	9438	10082	10118	10204	10438	10617	10614	10614

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	Top Hit Descriptor	Homo sapiens NOD1 protein (NOD1) gene, extens 1, 2, and 3	Homo saplens NOD1 protein (NOD1) gene, exons 1, 2, and 3	Homo sapiens mRNA for partial OCT/plexin-A2 protein	Homo saplens mRNA for pertial OCT/plexin-A2 protein	7e50f08.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3286927 3' sImilar to gb:J05272 INOSINE- 5-MONOPHOSPHATE DEHYDROGENASE 1 (HUIMAN);	601508347F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3808147 6'	AU136283 PLACE1 Hamo saplens cDNA clone PLACE1003923 5	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30	Homo saplens TSA305 gens, exon 18	Homo sapiens mannosidase, beta A, Iysosomai (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds	Homo sapiens hypothetical protein FL)20454 (FL)20454), mRNA	Homo sapiens gene for AF-6, complete cds	DKFZp564H1072_r1 564 (synonym: hfbr2) Homo saplens cDNA clone DKFZp564H1072 5'	DKFZp564H1072_r1 564 (synonym: hfbr2) Homo saplens cDNA clone DKFZp564H1072 5'	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA	2022c08.s1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:697626 3' similar to gb:214116_ma1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);	801577460F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926438 5'	RC1-C10249-110900-214-f12 CT0249 Homo saplens cDNA	RC1-C10249-110900-214-f12 CT0249 Homo saplens cDNA	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA	Homo sapiens KIAA0440 protein (KIAA0440), mRNA	Homo sapiens KIAA0440 protein (KIAA0440), mRNA	Human lymphocytio antigen CD59/MEM43 mRNA, complete cds	H.saplens gene encoding phenylpyruvate tautomerase II	AU133926 OVARC1 Homo septens cDNA clone OVARC1000936 5	EST21858 Adrenal gland tumor Homo saptens cDNA 5' end	Horno sapiens mRNA for KIAA1276 protein, partial cds	Homo sapiens mRNA for KIAA1276 protein, partial cds	Homo septens mRNA for KIAA1172 protein, partial cds	Human mRNA for fibronectin (FN precursor)	Homo sapiens chromosome 21 unknown mRNA
	Top Hit Database Source	NT	NT	NT	NT	EST HIMAN	EST HUMAN	EST HUMAN	Į.	TN	IN	뉟	NT	EST_HUMAN	9.3 EST_HUMAN	·	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LZ	. TN	NT	NT ,	TN	EST_HUMAN	EST_HUMAN	IN	NT	TN	NT	IN
	Top Hit Acession No.	AF149773.1	AF149773.1	X87831.2	X87831.2	RE971418 1	Γ		L43810.1	AB024759.1	AF224669.1	11526291	AB011399.1	AL037549.3	AL037549.3	4502428	AA132975.1	BE744628.1	BF334221.1	BF334221.1	5031570 NT	7662125 NT	7662125 NT	M34671.1	Y11151.1	AU133926.1	AA319436.1	AB033102.1	AB033102.1	AB032998.1	XD2761.1	AF231920.1
	Most Stmilar (Top) Hit BLAST E Value	1.0E-103	1.0E-103		1.0E-103		_	_	-	1.0E-103	1.0E-103	1.0E-103		1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	_	1.0E-104	_	1.0E-104 /	1.0E-104	1.0E-104	_		1.0E-104
	Expression Signal	2.45	2.45	2.47	2.47	4	6.32	2.89	17.08	2.28	2.63	-8.	3.49	2.73	2.73	1.24	6.8	3.09	1.62	1.52	8.31	4.28	4.28	10.39	2.17	1.07	2.02	29:0	0.62	1	8.31	243.66
	ORF SEQ ID NO:	36050	36051	36084	36085		36451	L	35820				30991	25260	25261	26867	27132	L	27292	27293		27431	27432	27794		28195		28549	28550	28900		29545
	Exan SEQ ID NO:	23064		L_	L	23246	L	1_	22847	23766	23932				12846	14376	14813	14622	14772	14772	14842	14914	14914		15425	15777	15915	16136	16136	16491	16921	17166
	Probe SEQ ID NO:	10622	10622	10663	10683	10777	11005	11131	11185	11405	11597	11629	11839	246	245	1853	2039	2109	2264	2264	2336	2410	2410	2824	2870	3225	3369	3585	3595	3956	4388	4650

	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1	29548	243.66	1.0E-104 AI	-231920.1	Į	Homo sapiens chromosome 21 unknown mRNA
1	31512		1.0E-104	43379.1	IN.	Human Down Syndrome region of chromosome 21 DNA
1	31513		1.0E-104		NT	Human Down Syndrome region of chromosome 21 DNA
1	31671		1.0E-104	1.0E-104 AB017332.1	LN	Homo sapiens aik3 mRNA for Aurora/Ip11-related kinase 3, complete cds
	32128		1.0E-104 A		EST_HUMAN	wjo3b12.x1 NCI_CGAP_Kid12 Homo sapiens cDNA cicne IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN, ;contains element LTR7 repetitive alement ;
ı	32129	8.67	1.0E-104 A	76879	7.1 EST_HUMAN	wjo3b12.x1 NCLCGAP_Kid12 Homo sapiens cDNA cicne IMAGE:2401727 3' similar to TR:Q14145 Q14146 KIAA0132 PROTEIN ;contains element LTR7 repetitive element ;
	32334		1.0E-104		LN.	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor I (LOC51735), mRNA
	32729		1.0E-104	1.0E-104 BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:3503220 5'
	32730	2.91	1.0E-104	1.0E-104 BE314182.1	EST_HUMAN	601160451F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:3503220 5'
	32974	2.21	1.0E-104	25572	TN	Homo saplens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
21499	34408	0.93	L		EST_HUMAN	UI-H-BI4-aow-b-09-0-UI.s1 NCI_CGAP_Sub9 Homo septens oDNA clone IMAGE:3086176 3
	34803	2.65	L		EST_HUMAN	nad16g11 x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3365948 3'
ı		1.3	<u> </u>		EST_HUMAN	ye83f02.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:22440 5'
1.	34909	5.41	L		NT	Homo sapiens Trio isoform mRNA, complete cds
I	34810	6.41	1.0E-104	1.0E-104 AF091395.1	NT	Homo sapiens Trio Isoform mRNA, complete cds
20838	33836	4.78		1.0E-104 BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Hamo saplens cDNA
	33837	4.78	_	BF352841.1	EST_HUMAN	IL3-HT0819-080900-249-F07 HT0819 Hamo saplens cDNA
22270	35210	0.97		1.0E-104 AW103848.1	EST HUMAN	xd76d02.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116 Q24116 HYPOTHETICAL 29.4 KD PROTEIN :
07222	35211	<u> </u>		1.0E-104 AW103848.1	EST HUMAN	xd76d02.x1 30ares_NRL_T_GBC_S1 Homo sepiens cDNA done IMAGE:2603523 3' similar to TR:Q24116 Q24116 HYPOTHETICAL 29.4 KD PROTEIN;
	35475			1.0E-104 BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3935977 5'
	35476	2.48		1.0E-104 BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Hamo sapiens cDNA clane IMAGE:3935977 5'
22704	35669	1.49		1.0E-104 AV728070.1	EST_HUMAN	AV728070 HTC Homo sapiens cDNA clone HTCBYA07 5'
22733	35700	6.02	l	1.0E-104 AU130765.1	EST_HUMAN	AU 130765 NT2RP3 Homo saplens cDNA clone NT2RP3001398 5
22805				U66535.1	TN	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25
22811		0.87			INT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
23493	36519	4.38	1.0E-104 B	BE720191.1	EST_HUMAN	RC0-HT0885-310700-021-b09 HT0885 Hamo saplens cDNA
23493		4.38	1.0E-104	BE720191.1	EST_HUMAN	RC0-HT0885-310700-021-b09 HT0885 Hamo sapiens cDNA
23516	36552	10.44			EST_HUMAN	602141215F1 NIH_MGC_46 Homo saptens cDNA clane IMAGE:4302507 5
24494		2.33	1.0E-104 B	BE393892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA cione IMAGE:3658676 5

Post Enn Chro Hit Top Hit						ş)		6
15254 25309 4.8 1.0E-105 4502166 NT 12620 25007 11.4 1.0E-105 4502166 NT 13770 25582 6.42 1.0E-105 AF032897.1 NT 13772 25583 6.42 1.0E-105 AF032897.1 NT 14307 25686 1.38 1.0E-105 AF032897.1 NT 14401 26886 1.38 1.0E-105 AF04808.1 EST_HUMAN 15871 22828 0.85 1.0E-105 AF04922 NT 16844 28022 0.85 1.0E-105 AF04922 NT 16847 28289 0.85 1.0E-105 AF04922 NT 17710 29689 0.85 1.0E-105 AF04922	Probe SEQ ID NO:	Exam SEQ ID NO:		Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptक
12620 25007 11.4 1.0E-105 4505150 NT 13179 25583 6.42 1.0E-105 AF032897.1 NT 13179 25583 6.42 1.0E-105 AF032897.1 NT 14401 26895 1.38 1.0E-105 AF032897.1 NT 14401 27128 2.88 1.0E-105 AA318380.1 EST HUMAN 14509 27128 2.88 1.0E-105 AA318380.1 EST HUMAN 14516 27128 2.88 1.0E-105 AA318380.1 EST HUMAN 14519 27128 1.0E-105 AA318380.1 EST HUMAN 14519 27128 1.0E-105 AA318380.1 NT 14519 2728 1.0E-105 AA318380.1 NT 14519 28282 0.85 1.0E-105 AA318380.1 NT 14871 28283 0.85 1.0E-105 AA318380.1 NT 14871 28289 0.85 1.0E-105 AA318380.1 NT	292				1.0E-105	4502166	L.	า่งกาด sapiens amyloid beta (A4) precursor protein (protease nexin-II, Abbeimer disease) (APP), mRNA
13179 25582 6.42 1.0E-105 AF032897.1 NT 13179 26583 6.42 1.0E-105 AF032897.1 NT 14322 26816 1.56 1.0E-105 D50918.1 NT 14401 28856 1.38 1.0E-105 D50918.1 NT 14401 27728 2.83 1.0E-105 A594808.1 EST HUMAN 15416 27837 1.19 1.0E-105 A594808.1 EST HUMAN 15416 27837 1.19 1.0E-105 A594808.1 NT 15871 28282 0.86 1.0E-105 A5037855.1 NT 15871 28282 0.86 1.0E-105 A5037855.1 NT 16446 27838 1.0E-105 A5037855.1 NT 16418 28282 0.86 1.0E-105 A503785.1 NT 16418 28029 0.86 1.0E-105 A503785.1 NT 17310 29689 0.85 1.0E-105 A503785.1 NT 17765 30724 1.38 1.0E-105 A50378.2 NT 17765 3078	442	ŀ		11.4		4505150	NT	Hamo sapiens Meist (mouse) homolog (MEIS1) mRNA
13179 25583 6.42 1.0E-105 A-103280.7.1 NT 14322 26816 1.56 1.0E-105 A-103280.2 NT 14401 26896 1.38 1.0E-105 A-318360.1 EST_HUMAN 15416 27128 2.83 1.0E-105 A-318360.1 EST_HUMAN 15416 27837 1.19 1.0E-105 A-318360.1 EST_HUMAN 15416 27838 1.19 1.0E-105 A-318360.1 NT 15619 27838 1.19 1.0E-105 A-318360.1 NT 15671 28282 0.86 1.0E-105 A-32041.1 NT 15871 28282 0.86 1.0E-105 A-320422 NT 16618 28282 0.86 1.0E-105 A-320422 NT 17310 28689 0.86 1.0E-105 A-320422 NT 17310 28689 0.83 1.0E-105 A-320422 NT 17750 28689 0.83 1.0E-105 A-320422 NT 17760 28689 0.84 1.0E-105 A-320422 NT <	611	l .					NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
14322 26816 1.56 1.0E-105 AL163280.2 NT 14401 26895 1.38 1.0E-105 AS18369.1 EST_HUMAN 14401 26895 1.38 1.0E-105 AA584808.1 EST_HUMAN 15416 27837 1.19 1.0E-105 AA584808.1 EST_HUMAN 15416 27837 1.19 1.0E-105 AB037855.1 NT 15519 3.22 1.0E-105 AB037855.1 NT 15519 3.22 1.0E-105 AJ228041.1 NT 15871 28282 0.85 1.0E-105 AJ228041.1 RST_HUMAN 15871 28283 0.84 1.0E-105 AB037858.1 EST_HUMAN 17810 29689 0.83 1.0E-105 AB08881.1 EST_HUMAN 17730 29689 0.83 1.0E-105 AB038881.1 EST_HUMAN 17750 30124 1.38 1.0E-105 AB038881.1 IST_HUMAN 17751 30124 1.38 1.0E-105 AB038881.1 IST_HUMAN 17752 30124 1.0E-105 AB038381.1 IST_HUMAN	611	1			1.0E-105		NT	Homo sapiens potasslum channel subunit (HERG-3) mRNA, complete cds
14401 26895 1.38 1.0E-105 D50918.1 NT 14609 27128 2.83 1.0E-105 AA318369.1 EST_HUMAN 15167 4.56 1.0E-105 AA584808.1 EST_HUMAN 15416 27837 1.19 1.0E-105 AB037855.1 NT 15416 27838 1.19 1.0E-105 AB037855.1 NT 15519 3.22 1.0E-105 AB037855.1 NT 15871 28292 0.85 1.0E-105 AD3285.1 NT 16871 28292 0.85 1.0E-105 AD3285.1 NT 17310 29688 0.83 1.0E-105 AW881688.1 EST_HUMAN 17756 30124 1.38 1.0E-105 AB03881.1 EST_HUMAN 17755 30124 1.8 1.0E-105 AB03881.1 NT 17755 30124 1.8 1.0E-105 AB03881.1 NT 18239 0.89 1.0E-105 AB03881.1 NT 18239 0.89 1.0E-105 AB03881.1 NT 18230 0.94 1.0E-105 AB03881.1 NT<	1797	L			1.0E-105		TN	Hamo sapiens chromosome 21 segment HS21C080
14609 27128 2.83 1.0E-105 AA318369.1 EST_HUMAN 15167 4.50 1.0E-105 AA584808.1 EST_HUMAN 15416 27837 1.19 1.0E-105 AB037855.1 NT 15519 3.22 1.0E-105 AB037855.1 NT 15619 3.22 1.0E-105 AB037855.1 NT 15871 28292 0.85 1.0E-105 AJ228041.1 NT 16871 28292 0.85 1.0E-105 AJ228041.1 NT 16874 28292 0.85 1.0E-105 AV88188.1 EST_HUMAN 17310 29689 0.83 1.0E-105 AL632082.2 NT 17750 30124 1.38 1.0E-105 AL632082.1 NT 1782 30200 0.89 1.0E-105 AL632082.1 NT 1782 30200 0.89 1.0E-105 AR018339.1 NT 1874 30536 0.94 1.0E-105 AR018339.1 NT 1874 30536 0.99 1.0E-105 AR018339.1 NT 1872 1.53 1.0E-105 BE31430	1879	_	Ŀ		1.0E-105		- FN	Human mRNA for KIAA0128 gene, partial cds
15167 4.56 1.0E-105 AA584808.1 EST_HUMAN 15416 27837 1.19 1.0E-105 AB037855.1 NT 15416 27838 1.19 1.0E-105 AB037855.1 NT 15519 3.22 1.0E-105 AJ228041.1 NT 15871 28292 0.85 1.0E-105 AJ228041.1 NT 16871 28292 0.85 1.0E-105 AJ228041.1 NT 16874 28292 0.86 1.0E-105 AV89188.1 EST_HUMAN 17310 29689 0.83 1.0E-105 BE88881.1 EST_HUMAN 17750 30124 1.3 1.0E-105 AL18320.2 NT 17842 30200 0.89 1.0E-105 AL18320.1 NT 1874 30235 0.94 1.0E-105 AV896015.1 EST_HUMAN 18724 32526 1.0E-105 AV896015.1 EST_HUMAN 18729 1.05 1.0E-105 AV896015.1 EST_HUMAN 18729 3.74 1.0E-105 BE314302.1 EST_HUMAN 18729 3.74 1.0E-105 BE314302.1	2095	L						EST20609 Spleen I Homo saplens cDNA 5' end similar to autoimmune antigen Ku, p70/p80 subunit
15416 27837 1.19 1.0E-105 AB037855.1 NT 16416 27838 1.19 1.0E-105 AB037855.1 NT 16519 3.22 1.0E-105 AJ228041.1 NT 16871 28282 0.85 1.0E-105 AJ228041.1 NT 16871 28283 0.86 1.0E-105 AJ228041.1 NT 16183 0.64 1.0E-105 AV891688.1 EST HUMAN 17310 29689 0.83 1.0E-105 BE868881.1 EST HUMAN 17750 30124 1.38 1.0E-105 AL163208.2 NT 1782 30200 0.89 1.0E-105 AL163208.2 NT 1775 30124 1.8 1.0E-105 AV896016.1 EST HUMAN 1872 30200 0.89 1.0E-105 AV896016.1 EST HUMAN 1872 30205 0.89 1.0E-105 AV896016.1 EST HUMAN 1872 30206 0.89 1.0E-105 AV896016.1 EST HUMAN 1872 30206 0.89 1.0E-105 BF314302.1 EST HUMAN 1872	2674						r_HUMAN	no10d05.s1 NCI_CGAP_Phe1 Homo sepiens cDNA clone IMAGE:1100285 3'
15416 27838 1.19 1.0E-105 AJ228041.1 NT 15619 3.22 1.0E-105 AJ228041.1 NT 15871 28282 0.85 1.0E-105 AJ228041.1 NT 15871 28283 0.86 1.0E-105 AJ228041.1 NT 16183 0.84 1.0E-105 AW891688.1 EST HUMAN 17310 29889 0.83 1.0E-105 BE88881.1 EST HUMAN 17750 30124 1.38 1.0E-105 AW891688.1 EST HUMAN 17751 29889 0.83 1.0E-105 BE88881.1 EST HUMAN 17764 30124 1.38 1.0E-105 AW896016.1 EST HUMAN 17765 30124 1.8 1.0E-105 AW896016.1 EST HUMAN 18724 30200 0.89 1.0E-105 AW896016.1 EST HUMAN 18724 32525 1.53 1.0E-105 AW896016.1 EST HUMAN 18724 32526 1.53 1.0E-105 BF314302.1 EST HUMAN 18968 30359 3.74 1.0E-106 BF314302.1 EST HUMAN <tr< td=""><td>2861</td><td>L</td><td></td><td></td><td>١.</td><td></td><td>LN.</td><td>Homo sapiens mRNA for KIAA1434 protein, partial cds</td></tr<>	2861	L			١.		LN.	Homo sapiens mRNA for KIAA1434 protein, partial cds
15519 3.22 1.0E-105 AJ228041.1 NT 15871 28292 0.85 1.0E-105 7304922 NT 16871 28292 0.86 1.0E-105 7304922 NT 16874 28292 0.86 1.0E-105 7304922 NT 16844 28029 7.26 1.0E-105 RST HUMAN 17310 28689 0.83 1.0E-105 BE888881.1 EST HUMAN 17530 6.69 1.0E-105 BE888881.1 EST HUMAN 17765 30124 1.38 1.0E-105 AN980163.1 NT 17765 30124 1.38 1.0E-105 AN980016.1 EST HUMAN 18239 0.94 1.0E-105 AN980016.1 EST HUMAN 18239 1.05 1.0E-105 AN980016.1 EST HUMAN 18239 1.05 1.0E-105 AN980016.1 EST HUMAN 18068 3.026 1.0E-105 BE314302.1 EST HUMAN 18068 3.0286 0.73 1.0E-106 BE92	2861	L	ļ				NT	Homo sapiens mRNA for KIAA1434 protein, partial cds
15871 28282 0.85 1.0E-105 7304922 NT 15871 28283 0.86 1.0E-105 7304922 NT 16183 0.84 1.0E-105 7304922 NT 16844 29029 7.26 1.0E-105 RE86881.1 EST HUMAN 17310 29689 0.83 1.0E-105 BE86881.1 EST HUMAN 17530 6.69 1.0E-105 BE86881.1 EST HUMAN 17765 30124 1.38 1.0E-105 AND 20073.1 NT 17765 30124 1.38 1.0E-105 AND 88391.1 EST HUMAN 17767 30124 1.38 1.0E-105 AND 88391.1 NT 17767 30124 1.0 C.10 AND 88391.1 NT 1877 30124 1.0 A.0 AND 88391.1 NT 1872 30124 1.0 A.0 A	2964					AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
16871 28283 0.86 1.0E-105 7304922 NT 16183 0.04 1.0E-105 1142532 NT 16844 29029 7.26 1.0E-105 AW981688.1 EST_HUMAN 17310 29689 0.83 1.0E-105 BE86881.1 EST_HUMAN 17530 6.69 1.0E-105 BE868881.1 EST_HUMAN 17756 30124 1.38 1.0E-105 AR98801.1 EST_HUMAN 17765 30124 1.38 1.0E-105 AW98015.1 NT 17767 30124 1.0E-105 AW98015.1 EST_HUMAN 1677 30536 0.94 1.0E-105 AW98015.1 EST_HUMAN 1672 30124 1.0E-105 AF018339.1 NT 1674 30536 1.0E-105 AF0180201.1 EST_HUMAN 16068 30536 3.14 1.0E-105 BF314302.1 EST_HUMAN 18068 30536 3.14 1.0E-106 BF914302.1 EST_HUMAN 18068 305	3324	l				7304922	NT	Homo sapiens bromodomain adjacent to zino finger domain, 2B (BAZ2B), mRNA
16183 0.94 1.0E-105 1142532 NT 16844 29029 7.26 1.0E-105 AW981688.1 EST_HUMAN 17310 29688 0.83 1.0E-105 BE86881.1 EST_HUMAN 17530 6.59 1.0E-105 BE86881.1 EST_HUMAN 17756 30124 1.38 1.0E-105 AR18329.1 NT 17765 30124 1.38 1.0E-105 AR18339.1 NT 17765 30124 1.38 1.0E-105 AW98015.1 EST_HUMAN 17765 30124 1.8 1.0E-105 AW98015.1 INT 18747 30536 0.94 1.0E-105 AW98015.1 EST_HUMAN 18724 32526 1.53 1.0E-105 AW98015.1 EST_HUMAN 18068 30536 3.14 1.0E-105 BF314302.1 EST_HUMAN 18068 30539 3.14 1.0E-106 BF314302.1 EST_HUMAN 18068 30539 3.14 1.0E-106 BF314302.1 EST_HUMAN 20185 3.3047 0.62 1.0E-106 BF902616.1 EST_HUMAN	3324					7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ2B), mRNA
16844 29028 7.26 1.0E-105 AW981688.1 EST_HUMAN 17310 29689 0.83 1.0E-105 BEB8881.1 EST_HUMAN 17530 29689 0.83 1.0E-105 BEB8881.1 EST_HUMAN 17530 6.69 1.0E-105 AL163208.2 NT 17765 30124 1.38 1.0E-105 AL163208.2 NT 17765 30124 1.38 1.0E-105 AN980015.1 NT 17765 30124 1.38 1.0E-105 AN980015.1 EST_HUMAN 18724 3020 0.89 1.0E-105 AN980015.1 EST_HUMAN 18724 30526 1.53 1.0E-105 AN980015.1 EST_HUMAN 18724 32526 1.53 1.0E-105 AN980015.1 EST_HUMAN 18068 30589 3.14 1.0E-105 BF314302.1 EST_HUMAN 18068 30589 3.14 1.0E-105 BF314302.1 EST_HUMAN 20185 33047 0.62 1.0E-105 BE902616.1 EST_HUMAN 20967 33899 1.1 1.0E-105 BC927.1 NT <td>3643</td> <td></td> <td></td> <td></td> <td>L</td> <td></td> <td>NT</td> <td>Homo sapiens dermatopontin (DPT), mRNA</td>	3643				L		NT	Homo sapiens dermatopontin (DPT), mRNA
17310 29688 0.83 1.0E-106 BE86881.1 EST_HUMAN 17510 29689 0.83 1.0E-105 BE86881.1 EST_HUMAN 17550 6.69 1.0E-105 AL163208.2 NT 17765 30124 1.38 1.0E-105 AL163208.2 NT 17826 30124 1.38 1.0E-105 AR01839.1 NT 17765 30124 1.38 1.0E-105 AR0808015.1 EST_HUMAN 17767 30200 0.89 1.0E-105 AR0808015.1 NT 18724 30526 1.0 1.0E-105 AR0808015.1 NT 18724 30526 1.53 1.0E-105 AR0808015.1 EST_HUMAN 18068 30589 3.14 1.0E-105 BF314302.1 EST_HUMAN 18068 30589 3.14 1.0E-105 BF314302.1 EST_HUMAN 20926 33047 0.62 1.0E-106 BF914302.1 EST_HUMAN 20926 33899 1.1 1.0E-106 BF902616.1 EST_HUMAN 20967 3266 1.0E-106 BF90261.1 EST_HUMAN	4114	1	L		l	AW961688.1	EST_HUMAN	EST373761 MAGE resequences, MAGG Homo sapiens cDNA
17310 29689 0.83 1.0E-105 BE86881.1 EST HUMAN 17530 6.69 1.0E-105 AL163208.2 NT 17755 30124 1.38 1.0E-105 AL163208.2 NT 17826 30185 2.69 1.0E-105 AB018339.1 NT 17765 30124 1.38 1.0E-105 AB018339.1 NT 17765 30124 1.6 1.0E-105 AB018339.1 NT 1871 30200 0.89 1.0E-105 AB018339.1 NT 18724 30250 0.94 1.0E-105 AB018339.1 NT 18724 32525 1.53 1.0E-105 AB018339.1 NT 18068 30358 3.14 1.0E-105 BF314302.1 EST HUMAN 18068 30359 3.14 1.0E-105 BF314302.1 EST HUMAN 20185 33047 0.62 1.0E-105 AW0851634.1 EST HUMAN 20926 33899 1.1 1.0E-105 K257.1 NT 20987 32894 7.11 1.0E-105 K2566.1 EST HUMAN	4796	1				E868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo saplens cDNA clone IMAGE:3850156 5
17530 6.69 1.0E-105 AL163208.2 NT 17756 30124 1.38 1.0E-105 AB018339.1 NT 17826 30185 2.69 1.0E-105 AB020673.1 NT 17842 30200 0.89 1.0E-105 AB018339.1 NT 18724 30224 1.6 1.0E-105 AB018339.1 NT 18724 30535 0.94 1.0E-105 AB018339.1 NT 18724 32525 1.53 1.0E-105 AB018339.1 NT 18724 32526 1.53 1.0E-105 AB018339.1 NT 18724 32526 1.53 1.0E-105 AB01839.1 EST_HUMAN 18724 32526 1.53 1.0E-105 AB0189.1 EST_HUMAN 18954 3.74 1.0E-105 AW061834.1 EST_HUMAN 20185 3.3047 0.62 1.0E-105 AW061834.1 EST_HUMAN 20926 3.3852 0.41 1.0E-105 AW061834.1 EST_HUMAN 20926 33822 0.41 1.0E-105 AW061834.1 EST_HUMAN 20926	4796	1				E868881.1	EST HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
17766 30124 1.38 1.0E-106 AB018339.1 NT 17826 30185 2.69 1.0E-105 AB020673.1 NT 17842 30200 0.89 1.0E-105 AB018339.1 NT 18734 30224 1.6 1.0E-105 AB018339.1 NT 18239 1.05 1.0E-105 AB018339.1 NT 1874 30536 0.94 1.0E-105 AF016704.1 NT 1874 32526 1.53 1.0E-105 AF016704.1 NT 1874 32526 1.53 1.0E-105 AF314302.1 EST HUMAN 18068 30359 3.14 1.0E-105 AF314302.1 EST HUMAN 18068 30359 3.14 1.0E-105 AF314302.1 EST HUMAN 20185 32788 0.73 1.0E-105 AF314302.1 EST HUMAN 20185 33047 0.62 1.0E-105 AF314302.1 EST HUMAN 20926 33822 0.41 1.0E-105 AF327.1 NT 20927 33869 1.1 1.0E-105 AF3257.1 NT 20987	5020				L		NT	Homo sapiens chromosome 21 segment HS21C008
17826 30185 2.69 1.0E-105 AB020673.1 NT 17842 30200 0.89 1.0E-105 AW986016.1 EST_HUMAN 17755 30124 1.6 1.0E-105 AB018339.1 NT 18239 1.05 1.0E-105 AF016704.1 NT 18239 1.05 1.0E-105 AF016704.1 NT 18724 32525 1.53 1.0E-105 BF314302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 BF314302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 BF314302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 BF314302.1 EST_HUMAN 20185 3.2788 0.73 1.0E-105 BF314302.1 EST_HUMAN 20185 3.3047 0.62 1.0E-105 BF302618.1 EST_HUMAN 20926 33822 0.41 1.0E-105 BF302618.1 NT 20926 33894 7.11 1.0E-105 T05097.1 NT	6254	L					IN	Homo sapiens mRNA for KIAA0796 protein, partial cds
17842 30200 0.89 1.0E-105 AW986016.1 EST_HUMAN 17755 30124 1.8 1.0E-105 AB018339.1 NT 18239 1.05 1.0E-105 AF016704.1 NT 18239 1.05 1.0E-105 AF016704.1 NT 19724 32526 1.53 1.0E-105 AF314302.1 EST_HUMAN 19724 32526 1.63 1.0E-105 AF314302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 AF314302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 AF314302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 AF314302.1 EST_HUMAN 20185 3278 0.73 1.0E-105 AF314302.1 EST_HUMAN 20185 33047 0.62 1.0E-105 AF314302.1 EST_HUMAN 20926 33822 0.41 1.0E-105 AF327.1 NT 20926 33894 7.11 1.0E-105 AF326.1 NT	5327	L					IN	Homo sapiens mRNA for KIAA0866 protein, complete cds
17755 30124 1.8 1.0E-105 AB018339.1 NT 18739 1.054 1.0E-105 AF016704.1 NT 18724 32525 1.53 1.0E-105 BF314302.1 EST_HUMAN 19724 32526 1.63 1.0E-105 BF314302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 BF314302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 BF314302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 BF314302.1 EST_HUMAN 20185 32788 0.73 1.0E-105 AW951634.1 EST_HUMAN 20185 33047 0.62 1.0E-105 BE302616.1 EST_HUMAN 20926 33822 0.41 1.0E-105 BC37.1 NT 20946 33894 7.11 1.0E-105 T05097.1 EST_HUMAN	5343	1			l	Г	EST_HUMAN	EST378088 MAGE resequences, MAGI Homo sapiens cDNA
18239 0.94 1.0E-105 AF016704.1 NT 18239 1.05 1.0E-105 AF016704.1 NT 18724 32525 1.53 1.0E-105 AF34302.1 EST_HUMAN 19724 32526 1.53 1.0E-105 AF34302.1 EST_HUMAN 18068 30359 3.14 1.0E-105 AF34302.1 EST_HUMAN 19954 32788 0.73 1.0E-105 AF361.1 EST_HUMAN 20185 33047 0.62 1.0E-105 AF962616.1 EST_HUMAN 20826 33822 0.41 1.0E-105 AF9627.1 NT 20967 33894 1.1 1.0E-105 AF966.1 NT 20867 33894 7.11 1.0E-105 AF966.1 NT	5418	l					TN	Homo sapiens mRNA for KIAA0796 protein, partial cds
18239 1,05 1,0E-105 11420134 NT 19724 32525 1,53 1,0E-105 BF314302.1 EST_HUMAN 19724 32526 1,63 1,0E-105 BF314302.1 EST_HUMAN 18068 30359 3.14 1,0E-105 11419196 NT 19954 32788 0.73 1,0E-105 AW951634.1 EST_HUMAN 20185 33047 0.62 1,0E-105 BE902616.1 EST_HUMAN 20826 33822 0.41 1,0E-105 L07627.1 NT 20967 33894 7.11 1,0E-105 X12566.1 NT 21086 33984 7.11 1,0E-105 T05097.1 EST_HUMAN	5583	L				AF0167	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
19724 32525 1.53 1.0E-105 BF314302.1 EST_HUMAN 19724 32526 1.63 1.0E-105 BF314302.1 EST_HUMAN 18068 3.0358 3.14 1.0E-105 11419196 NT 18068 30359 3.14 1.0E-105 11419196 NT 19954 32788 0.73 1.0E-105 AW951634.1 EST_HUMAN 20185 33047 0.62 1.0E-105 BE902616.1 EST_HUMAN 20926 33822 0.41 1.0E-105 K27.1 NT 20937 33898 1.1 1.0E-105 K12566.1 NT 21086 33894 7.11 1.0E-105 T05087.1 EST_HUMAN	5653	_	-	1.05			NT .	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
19724 32526 1.63 1.0E-106 BF314302.1 EST_HUMAN 18068 3.0368 3.14 1.0E-106 11419196 NT 18068 30359 3.14 1.0E-105 11419196 NT 19954 32788 0.73 1.0E-105 AW951634.1 EST_HUMAN 20185 33047 0.62 1.0E-105 BE902616.1 EST_HUMAN 20926 33822 0.41 1.0E-105 K27.1 NT 20967 33899 1.1 1.0E-105 T05087.1 NT 21086 33994 7.11 1.0E-105 T05087.1 EST_HUMAN	7312		L		_	BF3143	EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 6
18068 3.0368 3.14 1.0E-106 11419196 INT 18068 3.0359 3.14 1.0E-105 11419196 INT 19954 32788 0.73 1.0E-105 AW951634.1 EST_HUMAN 20185 33047 0.62 1.0E-105 BE902616.1 EST_HUMAN 20926 33822 0.41 1.0E-105 L07627.1 NT 20967 33899 1.1 1.0E-105 X12656.1 NT 21086 33894 7.11 1.0E-105 T05087.1 EST_HUMAN	7312	ı				ıœ	EST_HUMAN	601901028F1 NIH_MGC_19 Hamo saplans cDNA clane IMAGE:4130334 5
18068 30359 3.14 1.0E-105 11419195 NT 19954 32788 0.73 1.0E-105 AW951834.1 EST_HUMAN 20185 33047 0.62 1.0E-105 BE902618.1 EST_HUMAN 20926 33822 0.41 1.0E-105 L07627.1 NT 20967 33899 1.1 1.0E-105 X12656.1 NT 21086 33894 7.11 1.0E-105 T05097.1 EST_HUMAN	7399	ı			_		LN	Homo sapiens GTPase activating protein-like (GAPL), mRNA
19954 32788 0.73 1.0E-105 AW951634.1 EST_HUMAN 20185 33047 0.62 1.0E-105 BE902616.1 EST_HUMAN 20926 33822 0.41 1.0E-105 L07627.1 NT 20967 33869 1.1 1.0E-105 X12656.1 NT 21086 33994 7.11 1.0E-105 T05097.1 EST_HUMAN	7389						LN.	Homo saplens GTPase activating protein-like (GAPL), mRNA
20185 33047 0.62 1.0E-105 BE902616.1 EST_HUMAN 20926 33822 0.41 1.0E-105 L07627.1 NT 20967 33869 1.1 1.0E-105 X12656.1 NT 21086 33994 7.11 1.0E-105 T05097.1 EST_HUMAN	7451	L				f	EST HUMAN	EST363689 MAGE resequences, MAGB Homo sapiens cDNA
20926 33822 0.41 1.0E-105 L07627.1 NT 20967 33869 1.1 1.0E-105 X12656.1 NT 21086 33994 7.11 1.0E-105 T05097.1 EST_HUMAN	7741					a	<u>''</u>	601677279F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960019 5
20967 33869 1.1 1.0E-105 X12556.1 NT 21086 33994 7.11 1.0E-105 T05097.1 EST_HUMAN	8614					1	NT	Homo sapiens protein-tyrosine phosphatase mRNA, complete cds
21086 33994 7.11 1.0E-105 T05087.1 EST_HUMAN	8532						NT	Human mRNA for dbl proto-oncogene
	8651	L					EST HUMAN	EST02975 Fetal brain, Stratagens (cat#936208) Homo saplens cDNA clone HFBCR32

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	Top Hit Descriptor	ws50c10.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2500628 3' similar to SW:ACSA_PENCH P38333 ACETYL-COENZYME A SYNTHETASE;	UI-H-Biop-abi-b-12-0-UI,s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:27117823'	QV2-OT0062-140300-083-409 OT0062 Homo sapiens cDNA	QV2-DT0062-140300-083-409 OT0062 Homo saplens cDNA	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced	wy74f07.x1 Soares_thymus_NHFTh Homo sapiens cDNA clorie IMAGE:2535301 3' similar to TR:P87892 P87892 PROTEASE;	7018c10.x1 NCI_CGAP_KId11 Homo sapiens cDNA clone IMAGE:3574291 3' similar to TR:P97880 P97680	RIN1.;	Hamo sapiens attractin precursor (ATRN) gene, exon 8	Homo saplens gene for Smad 3, exon 2 and 3	Homo sapiens gene for Smad 3, exon 2 and 3	UI-HF-BN0-akt-g-07-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 67	tq78c01.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2216008 3'	EST377629 MAGE resequences, MAGI Homo sapiens oDNA	Human dihydrofolate reductase pseudogene (psi-hd1)	Human dihydrofolate reductase pseudogene (psl-hd1)	Homo sapiens soluble neuropilin-1 mRNA, complete cds	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds	Ing41c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937352.3' similar to contains element LTR3 repetitive element;	ng41c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:837352 3' similar to contains element	LTR3 repetitive element;	MR0-HT0165-140200-008-d10 HT0165 Homo saplens cDNA	Homo saplens glutathione S-transferase theta 1 (GSTT1), mRNA	Home sapiens X-linked anhidrolite ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat	regions	Homo sapiens sperm membrane protein BS-63 mKNA, compate cas	601149783F1 NIH_MGC_19 Homo septens cDNA clone IMAGE:3502461 b	qi76h10.x1 Soares_NhHMPu_S1 Homo sapiens cDNA dane IMAGE:1878307 31.	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA	Homo saplens glutatrione S-transferase theta 1 (GSTT1), mRNA	601272675F1 NIH_MGC_20 Homo seplens cDNA dane IMAGE:3613818 5'
	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	NT	EST HUMAN		EST_HUMAN	NT	NT	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	IN	IN	IN	IN	EST HUMAN		EST_HUMAN	EST_HUMAN	NT		NT		EST_HUMAN	EST_HUMAN	NT	NT	EST_HUMAN
	Top Hit Acession No.	AW007184.1	AW016879.1	П	1	AF254822.1	AW027554.1		BF430921.1	AF218896.1	AB004924.1	AB004924.1	AW503208.1	A1565065.1	AW88556.1	J00146.1	J00148.1	AF145712.1	U48724.1	AA527446.1		AA527446.1	BE144286.1	4504184 NT		AF003528.1	U64675.2	BE260201.1	AI276528.1	4504184 NT	4504184 NT	BE384296.1
	Most Similar (Top) Hit BLAST E Value	1.0E-105	1.0E-105		1.0E-105	1.0E-105	1.0E-105		1.0E-105		1.0E-105	1.0E-105	1.0E-106	1.0E-106	1.0E-106		1.0E-108	1.0E-106	1.0E-108	1.0E-106		1.0E-108	1.0E-106			1.0E-108	1.0E-108	1.0E-108		1.0E-108	1.0E-106	1.0E-106
	Expression Signal	1.37	3.07	6.0	6.0	7.2	3.17		3.5	1.93	3.05	3.05	1.64	1.52	2.3	0.84	1.19	2.66	4.17	3.81		3.81	66.0	2		3.42	4.64	6,49	7.46	2.12		1.33
	ORF SEQ ID NO:	34277		34830	34831	36131	36754		36829					25231	25543	26596		28542	26708	26792		26783		27243				27644	3 27723	26458	28459	
	Exon SEQ ID NO:	21365	ı	L	21809	(23700	1	23770	23872	23875	23875	12760	12814	L	13190	13190	14081	14226	i .	ı	14304	i	14721	(15028	15206	13994	13894	15385
	Probe SEQ ID NO:	8831	8378	9478	9478	10708	11336		11409	11514	11517	-11517	155	211	583	624	625	1549	1698	1779		1779	2042	2211		2412	2527	2529	2716	2783	2783	2829

Burn III popolity popolity popolity	Exon ORF SEQ Expression (Top) Hit Top Hit Acession No. Signal BLASTE No. Source Source	15449 27873 6.98 1.0E-106 AB037747.1 NT Homo sepiens mRNA for KIAA1326 protein, partial cds	16449 27874 5.98 1.0E-106 AB037747.1 NT Homo saplens mRNA for KIAA1326 protein, partial cds	28107 2.54 1.0E-106 8922965 NT	15690 28108 254 1.0E-106 8922985 NT Homo sepiens hypothetical protein FLJ11273 (FLJ11273), mRNA	28318 0.6 1.0E-106 AB008681.1 NT	9.36 1.0E-108 AW974650.1 EST_HUMAN	28973 9.36 1.0E-106 AW974650.1 EST HUMAN	16600 28990 1.07 1.0E-106 5729729 NT Homo septens API5-II/se 1 (API5L1), mRNA	17157 29536 1.25 1.0E-106 BE144286.1 EST_HUMAN MR0-HT0165-140200-008-d10 HT0165 Homo septens cDNA	18212 30613 3.15 1.0E-108 AA781155.1 EST HUMAN PHPS1-2 (HUMAN):	31409 1.02 1.0E-106/AU130113.1 EST HUMAN	31410 1.02 1.0E-106/AU130113.1 EST HUMAN	31466 0.84 1.0E-108 AA434168.1 EST_HUMAN	Г	31680 0.59 1.0E-108 AU143428.1 EST_HUMAN	31703	31818 0.63 1.0E-106 BE897112.1 EST_HUMAN	19077 31818 0.76 1.0E-106 BE897112.1 EST_HUMAN 601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924841 5'	32066 15.52 1.0E-106 11545913	19301 32087 15.52 1.0E-108 11645913 NT Homo saplens xylosyltransferase II (XT2), mRNA	20284 33146 6.12 1.0E-106 AA663779.1 EST HUMAN KINESIN HEAVY CHAIN (HUMAN):	1.0E-106 11428617 NT	T HUMAN	20561 33437 10.25 1.0E-106 11425503 NT Homo espiens sorting next n 1 (SNX11), mRNA	20561 33438 10.25 1.0E-106 11426503 NT Homo sepiens sorting nevin 11 (SNX11), mRNA	33709 0.55 1.0E-108 AW183047.1 EST HUMAN	33732 0.51 1.0E-106 AU116850.1 EST_HUMAN	33864 3.72 1.0E-108 BE741408.1 EST_HUMAN	21057 33965 3.72 1.0E-106 BE741408.1 EST HUMAN 601694331F1 NIH MGC_9 Home explens cDNA clone IMAGE:3948463 67	ar68e07.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone INAGE:2127732.3' similar to gb:X06233
																											1				•
	Probe Ex SEQ ID SEC NO: NC		Ц	L	3137 15		Ш	4051 16		4641 17	5625 18	L	6141 18	6197 18							6758 19	7844 20		8008	8138 20	8138 20	_L	丄		8622 24	

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9140	24672	34479	2.99	1.0E-108	AI654123.1	EST_HUMAN	ty62g05.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2283632 3' similar to SW:ICA8_HUMAN Q06084 69 KD ISLET CELL AUTOANTIGEN ;
9437	L	34784	2.73	1.0E-108	AA825307.1	EST_HUMAN	oc67e08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clane IMAGE:1354790 3'
9437		34785	2.73	1.0E-106	AA825307.1	EST_HUMAN	oog7e08.s1 NCI_CGAP_GCB1 Homo sepiens oDNA clane IMAGE:1354780 3'
9540	21955	34878	1.11	1.0E-108	AI750447.1	EST HUMAN	cn03a04.y1 Normal Human Trabecular Bone Cells Hono saplens cDNA clone NHTBC_cn03a04 random
6639	L			L	AI479569.1	EST_HUMAN	m4102.x; NCI_CGAP_Kid11 Homo seplens cDNA clone IMAGE:2160699 3' similar to contains MSR1.t3 TAR1 PTR5 repetitive element ;
6639				1.0E-106	AI478569.1	EST HUMAN	দার্থ102.X1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.3ে TAR1 PTR5 repetitive element ;
10034	<u> </u>		1.12	L	BE389234.1	EST_HUMAN	601282367F1 NIH_MGC_44 Hamo seplens cDNA done IMAGE:3604217 6'
10102	L	35468	1.43	1.0E-106	BF027310.1	EST_HUMAN	601671674F1 NIH MGC_20 Homo saplens cDNA clone IMAGE:3954403 5
10102	22503	35467	1.43	1.0E-106	3	EST_HUMAN	601671674F1 NIH_MGC_20 Homo sepiens cDNA clone IMAGE:3954403 5'
10206			6.61	1.0E-108	•	EST_HUMAN	np57b10.s1 NCI_CGAP_Br2 Hamo sapiens cDNA clone IMAGE:1130395 3'
10208	22607		6.61	1.0E-108	AA604417.1	EST HUMAN	np57b10.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130395 3'
10418	22818		3.3	1.0E-106	AL163202.2	NT	Homo saplens chromosome 21 segment HS21C002
10677	71152	36093	4.24			EST_HUMAN	601453461F1 NIH_MGC_68 Homo sepiens oDNA clone IMAGE:3857368 5
10677						EST_HUMAN	601453461F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3857368 5'
10845	23278	36268	1.91			NT	Human ryanodine receptor mRNA, complete cds
10845	5 23278	36269	16.1	1.0E-106	J05200.1	NT	Human ryanodine receptor mRNA, complete ods
11163	23543	36582	3.97	1.0E-106	BE257385.1	EST_HUMAN	601109219F1 NIH_MGC_16 Homo sepiens cDNA clone IMAGE:3348997 5
11675			4.84	1.0E-106	AW410405.1	EST_HUMAN	fh05h11x1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:2881644 6
11911	24135			1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5
11911	24135	69606	2.68		BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo seplens cDNA clone IMAGE:3918524 5
12146	3 24277		6.62		BE695905.1	EST HUMAN	RC1-CT0249-090800-024-d05 CT0249 Homo seplens cDNA
246			3.2		AJZ71735.1	NT	Homo sepiens Xq pseudoautosomal region; segment 1/2
278	12875		1.57	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon eiphalbeta receptor
649	13213	25623	2.08	1.0E-107	AF165103.1	INT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
836	13393	25831	1.41	1.0E-107	X60459.1	NT	Human IFNAR gene for Interferon alpha/beta receptor
606	13463	25911	1.94	1.0E-107	X60459.1	NT	Human IFNAR gene for Interferon alpha/beta receptor
993	13545	. 25988	16.44	1.0E-107	AF154121.1	_ <u>\</u>	Homo sepiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1311						TN	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1588	Ц	Ш		Ц	BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-e05 HT0540 Homo sepiens cDNA

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	Top Hit Descriptor	Homo saplens cathepsin Z precursor (CTSZ) gene, exon 3	Homo saplens mRNA for KIAA0463 protein, partial cds	Homo sapiens mRNA for KIAA0453 protein, partial cds	Human dipeptidy peptidase IV (CD28) gene, exon 20	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA	601567619F1 NIH_MGC_21 Homo septens oDNA drane IMAGE:3842309 6'	601567619F1 NIH_MGC_21 Homo seplens cDNA dane IMAGE:3842309 5'	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA	PM1-CN0031-190100-001-d03 CN0031 Homo seplens oDNA	Homo sapiens SMT3 (suppressor of mif two 3, yeast) homolog 2 (SMT3H2), mRNA	Homo saplans myotubularin (MTM1) gene, excn 9	EST381115 MAGE resequences, MAGK Homo sapiens cDNA	801442558F1 NIH_MGC_65 Home saplens cDNA clone IMAGE:3848494 67	Homo saplans A kinase (PRKA) anchor protein 10 (AKAP10), mRNA	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA	Homo capiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA	Ul-HF-BN0-afr-c-08-0-Ul.r1 NIH_MGC_60 Homo saplens cDNA clone IMAGE:3079310 6	UI-HF-BN0-afr-c-08-0-UI.r1 NIH_MGC_60 Homo saplens cDNA clone IMAGE:3079310 51	wh56h04.x1 NCI_CGAP_Kld11 Homo saplens cDNA clone IMAGE:2384791 3'	Homo saplens mRNA for dynein heavy chain (DNAH9 gene)	Homo saplans mRNA for dynein heavy chain (DNAH9 gene)	fh08d11.x2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2984524 5	AU122469 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 6'	QV1-HT0516-140300-107-c10 HT0516 Homo saplens cDNA	Homo saplens neuroendoctine-specific protein (NSP) gene, excn 4	602123983F1 NIH_MGC_66 Homa septens cDNA clone IMAGE:4281039 5'	Homo sepiens hypothetical protein FLJ20041 (FLJ20041), mRNA	Homo seplens hypothetical protein FLJ20041 (FLJ20041), mRNA	601066681F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5'	Homo saplens HSPC049 protein (HSPC049), mRNA	Homo saplens HSPC049 protein (HSPC049), mRNA
	Top Hit Database Source	NT	Z	LN.	Ł	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	٦	Z	EST HUMAN	EST_HUMAN	NT	NT	F	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	IN	EST_HUMAN	NT	NT	EST_HUMAN	LN	Ż
	Top Hit Acession No.	VF136275.1	AB007922.2	\B007922.2	113729.1	W842451.1	\W842461.1	3E732460.1	3E732460.1	W842451.1	\W842451.1	75057	AF020671.1	\W969038.1	3E867469.1	6005708	11431469 NT	11431469 NT	4W 503913.1	AW 503913.1	AI765078.1	1,1404468.1	1,1404468.1	4W410961.1		3E168726.1		3F666511.1	11424084 NT	11424084 NT	3E540550.1	11419701 NT	11419701 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107
	Expression Signal	6.15	1.01	1.01	0.89	1.5	1.5	3.03	3.03	5.26	5.26	47.4	5.04	. 0.64	2	0.43	0.62	0.62	1.47	1.47	1.44	0.62	0.62	0.64	1.08	2.61	2.08	3.79	1.66	1.66	6.35	5.73	5.73
	ORF SEQ ID NO:	26755	26831	26832	27150	27284	27285	27460	27461	27940		28025	28773	31151	31425	32733	32546	32547	33138	33139													35806
	Exam SEQ ID NO:	14270	14337	14337	14827	14763	14763		ii		15520	15816	16373	18471	18721	19904	19743	19743		20276		Ц			22090]						22835
	Probe SEQ ID NO:	1743	1814	1814	2114	2265	2265	2440	2440	2965	2985	3062	3836	6892	6163	7193	7331	7331	7836	7836	8037	8281	8281	8365	9610	10448	10726	10740	10827	10827	11087	11145	11145

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
97277	70070		1	700 300	A A DOOR 44 E 4	TOT LUMAN	2245601.s1 Soares retina N2b4HR Homo saplens cDNA clone IMAGE:361944 3' similar to contains THR.b1
12604		30838			RE798189 1	EST HUMAN	601682652F1 NIH MGC 7 Hamp septems cDNA clone IMAGE:3937188 5
979				1.0E-108		EST HUMAN	601177018F1 NIH MGC_17 Hamo septens cDNA clone IMAGE:3532348 67
1298	L			1.0E-108	Y18000.1	¥	Homo sapiens NF2 gene
2002	14518	27029	1.2	1.0E-108	BF026728.1	EST_HUMAN	601671974F1 NIH_MGC_20 Homo seplens cDNA clone IMAGE:3954939 5
2225	14735	27265	7.35	1.0E-108	AI686040.1	EST_HUMAN	1891e10 X1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248938 3' similer to gb:M14219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);
2225	14735	27256	7.35	-1.0E-108	AI686040.1	EST_HUMAN	(1876/10:X1 NCI_CGAP_P/28 Home sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);
23.28	14835	27350	11.35	1 0F-108	1 70990C H	NAMIH TRA	bb25b10.x1 NIH_MGC_14 Homo septens cDNA clone IMAGE:2963899 3' similar to gb:X53777 60S RIBOSOMAL PROTEIN L23 (HUMAN): ob:J05277 Mouse hexokinase mRNA, complete cds (M0USE):
3322					AF032897.1	N	Homo septens potassium channel subunit (HERG-3) mRNA, complete cds
3322	15869	1		1.0E-108	AF032897.1	Ę	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4174	18701	29090	1.26	1.0E-108	AW664438.1	EST HUMAN	h112a11.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2972060 3' similar to SW:3BP1_MOUSE P55194 SH3-BINDING PROTEIN 3BP-1.;
4562	17079	29464	2.47	1.0E-108	U72961.1	NT.	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4562	17079	29465	2.47	1.0E-108	U72961.1	Ę	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4861	17373	29751	2.89	1.0E-108	7661979 NT	NT	Homo sepiens KIAA0187 gene product (KIAA0187), mRNA
4993			0.0	1.0E-108	AW504799.1	EST_HUMAN	UI-HF-BNO-ain-e-04-0-UI.r1 NIH_MGC_50 Hamo saplens cDNA clone IMAGE:3080166 5
5035		29916	2.73		AJ008005.1	IN	Homo saplens PSN1 gene, alternative transcript
5285			9.71	1.0E-108		NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDIT), mRNA
5309			0.62		5031624 NT	L	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
6233			1.27	1.0E-108		EST_HUMAN	RC0-HT0372-241199-031-d03 HT0372 Homo sepiens cDNA
5789						EST_HUMAN	601444922F1 NIH_MGC_65 Homo saplens cDNA clone IMAGE:3848980 5'
6288		30834			_	EST_HUMAN	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5
8224	18790		7.70	1.0E-108	AF012623.1	IN	Homo saplens familial mental retardation protein 2 (FMR2) gene, exon 20
6305	18866	31592	0.71	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sepiens cDNA
6452	19008	31741	7.24	1.0E-108	AF284717.1	TN	Homo saplens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6452	19008	31742	7.24	1.0E-108	AF264717.1	TN	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete ods
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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6585	19136	31883	1.37		1.0E-108 AJ133269.1	NT	Homo sapiens caveciin-1/-2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6691	18866		1.1	1.0E-108		EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6977	19514	32294	0.83			. IN	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
6977	19514		0.83		F0167	NT	Homo sapiens E6-AP ublquitin-protein ligase (UBE3A) gene, exon 4
7599	20048	32898	5.61	1.0E-108	1	NT	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPRC5B), mRNA
7924	20361	33228			4758333 NT	NT	Homo sapiens delta-6 fatty aold desaturase (FADSD6) mRNA
7977	20413	33282	1.33	1.0E-108	BE252607.1	EST_HUMAN	601113471F1 NIH_MGC_16 Homo sepiens cDNA clone IMAGE:3354064 5'
8011	20443	33312	1.6	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Brn67 Homo saplens cDNA clone IMAGE:4181037 5'
8011	20443	33313	1.6		BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Bm67 Homo saplens cDNA clone IMAGE:4181037 5'
8400	20814	33712	0.48		BE535227.1	EST_HUMAN	601058769F1 NIH_MGC_10 Homo saplens cDNA done IMAGE:3445361 5
8680	21115		1.96	1.0E-108	AF083500.1	F	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8713	21148	34051	1.78		1.0E-108 AW 408694.1	EST_HUMAN	UI-HF-BM0-ads-e-12-0-UI.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3082878 5'
8713	21148	34052	1.78		1.0E-108 AW 408694.1	EST_HUMAN	UHHF-BM0-ads-e-12-0-UI.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5
10460	20814	33712	2.28	1.0E-108	E535227.1	EST_HUMAN	601058769F1 NIH_MGC_10 Homo saplens cDNA done IMAGE:3445361 67
10609	18013	30445	4.99		1.0E-108 Y12490.1	NT	Homo sapiens mRNA for Gogi-essociated microtubule-binding protein (GMAP-210)
11041	23468		8.8		1.0E-108 AW968185.1	EST_HUMAN	EST378258 MAGE resequences, MAGI Homo septens cDNA
11088	23513	36546	2.36		1.0E-108 AV708790.1	EST HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5
11088	23513	36547	2.36		1.0E-108 AV708790.1	EST HUMAN	AV708790 ADC Homo sepiens cDNA clone ADCAEE03 5'
11128	23580		2.05		11441465 NT	TN	Homo saplens G protein-coupled receptor 48 (GPR48), mRNA
11157	14735	27255	5.32		1.0E-108 AI686040.1	EST HUMAN	tt91e10x1 NCI_CGAP_Pt28 Home saplens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOGLYGAN II PRECURSOR (HUMAN);
11157	14735				AIRBROAD 4	EST HIMAN	tt91e10.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTECCI YCAN II PRECI IRSOR /HI IMAN i:
11513	23871	L			:L_	NT	Homo seplens zinedin (ZIN), mRNA
11513	23871	36951	1.68		T019572 NT	Ψ	Homo sapiens zinedin (ZIN), mRNA
11925	24142	30972	4.01	1.0E-108	AK024447.1	Z-Z	Homo seplens mRNA for FLJ00037 protein, partial cds
12351	24411		8.4	1.0E-108	BF346356.1	EST_HUMAN	602018571F1 NCI_CGAP_Bm67 Homo saplens cDNA clone IMAGE:4154297 6'
44	12664		1.18		-	EST_HUMAN	IL2-UM0077-260400-079-D06 UM0077 Homo saplens cDNA
49					D86974.1	NT	Human mRNA for KIAA0220 gene, partial cds
228			1.06	1.0E-109	11422486 NT	LN	Homo saplens hypothetical protein FLJ11316 (FLJ11316), mRNA
236	_				_	LV.	Homo saplens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
484	13058			١	٠,	NT T	Homo saplens tetratricopeptide repeat domain 2 (TTC2) mRNA
615	13183	25587	13.82	1.0E-109	AB023216.1	NT NT	Homo sapiens mRNA for KIAA0999 protein, partial cds

				-	\ <u></u>		
Probe SFO ID	Exan SFO ID	ORF SEQ	Expression	Most Similar (Top) Hit	Top Hit Acession	Top Hit	Top Hit Descriptor
Š Š Š		Ö Q	Signal	BLAST E Value	o Z	Source	
615	13183	25588	13.82	1.0E-109	AB023216.1	NT	Homo seplens mRNA for KIAA0999 protein, partial ods
1233	13772	26219	9.95	1.0E-109	M28699.1	NT	Homo saplens nucleolar phosphoprotein B23 (NPM1) mRNA, complete ods
1234	L	26219	5.28	1.0E-109	M28699.1	IN.	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
1565	14097		0.88	1.0E-109	BE293673.1	EST_HUMAN	6011B6922F2 NIH_MGC_15 Homo saplens cDNA clane IMAGE:2959636 5'
1665	14097	26560		1.05-109	BE283673.1	T_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
1844	14366	26860			D13643.2	NT	Homo sapiens mRNA for KIAA0018 protein, partial cds
2150	14663		479	1.0E-109	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2166	14669	27191	1.54	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/IN/1 gene, excn 6
2553	15032		4.61	1.0E-109	A1022328.1	EST_HUMAN	ow95a01.x1 Soares_fetal_liver_spieen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN. ;
2553	15052	27569	4.61	· 1.0E-109	Al022328.1	EST HUMAN	ow85a01.xf Soares_feta_liver_spleen_1NFLS_S1 Hamo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.;
2554	ł.			1.0E-109	304206	TN	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
	L						J2816F Human fetal heart, Lambda ZAP Express Home saplens cDNA clone J2816 5' similar to ZINC
3019	15574	27985	2.23	1.0E-109	N85190.1	EST HUMAN	FINGER PROTEIN ZNF43
3366	15912	28333	1.51	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-160-f10 NN0009 Homo saplens cDNA
3366	15912	28334	1.51	1.0E-109		EST_HUMAN	CM3-NN0009-190400-150-f10 NN0009 Homo septens oDNA
3498	16041	28462	12.37	1.0E-109	AF240698.1	LN	Homo sapiens retind dehydrogenase frandog isoform-1 (RDH) mRNA, complete cds
3547	16089	28500		1.0E-109	M37928.1	NT	Homo sapeins adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3547	16089	28507	3.29	1.0E-109	M37928.1	LN	Homo sapeins adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3849	16386		1.45	1.05-109	BE146144.1	EST_HUMAN	MR0-HT0209-110400-108-a04 HT0209 Homo saplens cDNA
4168	16603	DBOOC	3 70	4 05-400	A 1855417 4	NAMI ILI TOTI	ts98e06.x1 NCI_CGAP_GC9 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8 CE18400 :
4428	1_			1.0E-109		N	Homo saplens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
4640	<u>ا</u>			1.0E-109		F	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA
4898	17509	29883	1.14	1.0E-109	R15400.1	EST_HUMAN	ya48e06.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:53057 5'
5168	17870	30033	9.0	Ŀ	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2859636 5
5166	17670		9.0	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2959636 5
5439	17934	30288	5.46	1.0E-109	11429810 NT	NT	Homo sapiens inosital polyphosphate-4-phosphatase, type I, 107kD (INPP4A), mRNA
5498	18087		17.0	1.0E-109	AU137282.1	EST HUMAN	AU137282 PLACE1 Homo sapiens cDNA clone PLACE1008169 6
5510	18101				BF673718.1	EST_HUMAN	602136448F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272922 5'
5568		30516	3.13			닐	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
5874						EST HUMAN	RC1-HT0815-200400-022-d04 HT0815 Homo sepiens cDNA
6226	24603	31497	1.03	1.0E-109	BF379688.1	EST HUMAN	CM1-UT0038-060900-399-h07 UT0038 Hamo sepiens cDNA

					7	3.0	
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
6289	18453		1.6	1.0E-109	BE179356.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
6681	19228	31978	0.69	1.0E-109	M23442.1	ΙΝ	Human interleukin 4 (IL-4) gene, complete cds
6681	19229		0.59	1.0E-109	M23442.1	TN	Human Interleukin 4 (IL-4) gene, complete cds
6943	19481	32260	0.71	1.0E-109	AI221385.1	EST_HUMAN	1g886h08.x1 Soares_NFL_T_GBC_S1 Homo expiens cDNA clone IMAGE:1842111 3'
7150	19863	32682	0.53	1.0E-109	11024711 NT	TN	Homo saplens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
7150			0.53	1.0E-109	11024711 NT	FN	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
7368	18038		0.43	1.0E-109	BE074888.1	EST_HUMAN	RC5-BT0580-170300-021-F08 BT0580 Homo sepiens cDNA
7689	20134	32890	0.72	1.0E-109	AB046811.1	N	Homo sapiens mRNA for KIAA1691 protein, partial cds
7951	20388	33255	0.42	1.0E-109	AE000297.1	NT	Escherichia coli K-12 MG1655 section 187 of 400 of the complete genome
8081	20509		3.6	1.0E-109	11432574 NT	Ę	Homo saplens AT-binding transcription factor 1 (ATBF1), mRNA
8083		33380	5.21	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 6'
8083	20511	33391	5.21	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sepiens cDNA clone IMAGE:4040279 5'
8334	20749	33646	0.63	1.0E-109	BE283297.1	EST HUMAN	601145017F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160229 5'
8757	21191	34093	1.41	1.0E-109		LN LN	Novel human gene mapping to chomosome 13
8840		34184	1.31	1.0E-109	AW749130.1	EST_HUMAN	PMA-BT0340-091299-002-e05 BT0340 Homo sapiens cDNA
9109	21541		. 2	1.0E-109	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA done 7B18H01
9161		34500	. 7.12	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
. 9161	21593	34501	7.12	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 6'
8503	21934	34858	7	4 0F-109	HB4860 1	EST HIMAN	ys90g08.r1 Soares retina N2b5HR Homo septens cDNA clone IMAGE:222110 5' similar to SP:A53491 A53491 BLIMETANIDE-SENSITIVE NA K.C.T. COTRANSPORTER - SIDINY :
9583	L		1.44	1.0E-109	BE397068.1	EST HUMAN	601289760F1 NIH MGC 8 Hamo sapiens cDNA clone IMAGE:3620030 6'
9583		34934	1.44	1.0E-109		EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
9682		35023	1.41	1.0E-109		EST_HUMAN	HSC1EC121 normalized Infant brain cDNA Homo sapiens cDNA clone c-1ec12
10558	23005		3.64	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
10558			3.64	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Hamo sapiens cDNA clone IMAGE:3449599 5'
10590	23035	36018	25.99	1.0E-109	BF694831.1	EST_HUMAN	602080724F2 NIH_MGC_81 Hamo sapiens cDNA clone IMAGE:4246341 5'
11021			204	1.0E-109	AW962574.1	EST_HUMAN	EST374847 MAGE resequences, MAGG Homo sapiens cDNA
11127	23579	36621	1.95	1.0E-109	4502838 NT	IN	Homo saplens Chediak-Higashi syndrome 1 (CHS1) mRNA
							zb08b12.r1 Sogres_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE;301439 5; similar to
11162			4.24	1.0E-109		EST_HUMAN	PIR:S43969 S43969 p54-beta stress-activated protein kinases - rat;
11532			8.17	1.0E-109	2.1	۲	Homo sapiens mRNA for KIAA0463 protein, partial cds
11823			1.68	1.0E-109		NT	Homo sapiens SNF5/INI1 gane; exon 8
12058	_1		1.69	1.0E-109	Y17123.1	NT	Homo saplens SNF6/IN11 gene, exon 6
12183	24303	30943	4.07	1.0E-109	AB011399.1	TN	Homo septens gene for AF-8, complete cds

Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3			77.0	1.0E-110	7549804 NT	LN.	Homo saplens detodinase, todothyronine, type II (DiO2), transcript variant 2, mRNA
39			7.14		5803073 NT	Ę	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
39			7.14	1.0E-110	5803073 NT	Į	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
113			0.81	1.0E-110	7549804 NT	Z	Homo sapiens delodinase, lodothyronine, type II (DIO2), transcript variant 2, mRNA
308			3.81	1.0E-110	D87291.1	NT.	Human mRNA for inward rectifier potassium channel, complete cds
545			1.23	1.0E-110	U84550.1	Z	Human dystrobrevin (DTN) gene, exon 20
1211			3.42	1.0E-110	5031620 NT	- EX	Homo saplens calcitonin receptor-like (CALCRL) mRNA
1312		26298	1.07	1.0E-110	AB032253.1	IN	Homo septens BAZ1B mRNA for bromodomain adjacent to zno finger domain 1B. complete cds
1984			1.41	1.0E-110	BF508896.1	EST_HUMAN	UI-H-BI4-aos-b-05-0-J.I.s1 NCI_CGAP_Sub8 Homo saplens cDNA clone IMAGE:3085784 31
2796	15353		1.17	1.0E-110	4503098	N	Homo sapiens chondrollin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
3049	15603		1.28	1.0E-110	U78027.1	NT	Homo sapiens Bruton's tyrosina kinasa (BTK), alpha-D-galactosidasa A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
3151	15704	28123	8.21	1.0E-110	11436041	F	Homo sapiens pregnancy-zone protein (PZP), mRNA
3151	15704	28124	8.21	1.0E-110	11436041 NT	Ę	Homo sapiens pregnancy-zone protein (PZP), mRNA
4065	16596	28987	3.67	1.0E-110	BE018558.1	EST HUMAN	bb82a05.y1 NIH_MGC_10 Homo saplens cDNA clone IMAGE:3048848 6' similar to TR:060312 060312 KIAA0568 PROTEIN:
4679	17195	29571	1.9		AI017213.1		ou32b10.x1 Soenes_NFL_T_GBC_S1 Homo seplens cDNA clone IMAGE:1627963 3' similar to SW:N121 RAT P52891 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121
4698	17214	29594	2.97	1.0E-110	AU117812.1	П	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5
2069	17579		1.99	1.0E-110	7662441 NT		Homo saplens KIAA1002 protein (KIAA1002), mRNA
5546			2.53	1.0E-110	BE299406.1	EST_HUMAN	601118710F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3028538 57
0009		31260	9.0		BE621069.1	EST_HUMAN	601493677F1 NIH_MGC_70 Homo saplens cDNA clone IMAGE:3895795 5
6019		31279	8.55	1.0E-110			Homo sepiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6019		31280	8.55	1.0E-110	11419323	L	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
7092	1		6.73	1.0E-110	M65112.1		Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7
7463	⅃		0.42	1.0E-110	3E251496.1	T_HUMAN	601109388F1 NIH_MGC_16 Hamo saplens cDNA clone IMAGE:3350277 5'
7641		32829	0.87	1.0E-110	U08888.1		Human GS2 gene, exon 2
764	19991	32830	0.87	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7788	20230	33091	0.75		1.0E-110 AI560289.1	EST HUMAN	th12d08.x1 NCI_CGAP_BIn25 Homo saplens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN_P50549 ETS TRANSLOCATION VARIANT 1:
7907			10.14	1.0E-110	V714276.1	EST HUMAN	AV714276 DCB Homo sepiens cDNA clone DCBCGE01 5'
7907			10.14	1.0E-110	1V714276.1	EST HUMAN	AV714276 DCB Homo saplens cDNA done DCBCGE01 6
7940			2.96	1.0E-110	1.0E-110 AB020675.1	Г	Homo sepiens mRNA for KIAA0868 protein, partial cds
8086	20514	33383	1.07	1.0E-110	П	EST_HUMAN	AU137923 PLACE1 Homo saplens cDNA clone PLACE1007511 5

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8510	20922	33818		1.0E-110	9961251 NT	Į.	Homo saplens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant C, mRNA
9750	22/53	35084	3.08	1.0E-110	AW838394.1	EST_HUMAN	QV2-LT0053-020400-119-e04 LT0053 Homo saplens cDNA
10257				1.0E-110	11432732	T'N	Homo sepiens galactokinase 2 (GALK2), mRNA
10529		35957	4.77	1.0E-110	Y12337.1	N	H.saplens mRNA for myotonic dystrophy protein kinase like protein
10747	23185		5.18	1.0E-110	BE734357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Hamo saplens cDNA clane IMAGE:3840433 5'
10747	23185	36171	5.18	1.0E-110		EST_HUMAN	601565604F1 NIH_MGC_21 Homo saplens cDNA olone IMAGE:3840433 6'
77700							zw67g02.r1 Soares_testts_NHT Homo saplens cDNA clone IMAGE:781298 5' similar to TR:G1145816
11831	23058	71905	4.47	1.0E-110	AA446629.1	EST HUMAN	GT140816 FKBF04; 604.430784E4 NIH MGC 72 Home emplore aDNA plant MACE-2004.648 E1
701	1			100,	DE097210.1	EST TOWNIN	October of the factor of the f
11/64	_1		9.03	1.0E-110	AW062258.1	EST HUMAN	ILO-B10163-040898-094-g10 BT0163 Homo septems cDNA
12016	_	•	2.18	1.0E-110	AB011399.1	N	Homo saplens gene for AF-6, complete ods
12074			1.38	1.0E-110	•	EST HUMAN	qc31c12.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1711222 3'
12168			4.87	1.0E-110	BF364548.1	EST_HUMAN	PM3-NN1082-140900-006-f12 NN1082 Homo sapiens cDNA
12480			1.44	1.0E-110	BF508896.1	EST HUMAN	UI-H-BI4-aos-b-05-0-UI.s1 NCI_CGAP_Sub8 Homo septens cDNA clone IMAGE:3085784 3'
179	12782		12.45	1.0E-111	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
202	12805	25222	26.0	1.0E-111	4758807 NT	NI	Homo sapiens ras GTP ase activating protein-like (NGAP) mRNA
755			2.68	1.0E-111	BF035327.1	EST_HUMAN	801458531F1 NIH_MGC_88 Hamo septens cDNA clone IMAGE:3862089 6'
764		25754	5.83	1.0E-111	8393092 NT	¥	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
951	13503			1.0E-111	M25142.1	NT	Human cardiac alpha-myosin heavy chain (MYH8) gene, exons 32 to 34
2147			1.15		AF036128.1	IN	Homo sapiens collagen type IX alpha 1 chain (COL9A1) gene, exons 29, 30, 31, and 32
4187		29103		1.0E-111	7661569 NT	N	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
4352	16874		5.91	1.0E-111	K02268.1	IN	Human enkephalin B (enkB) gene, exon 4 and 3' flank and complete cds
5736	18318	30752	0.64	1.0E-111	AA151017.1	EST HUMAN	247b07.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA cione IMAGE:505045 6' similar to gb:M23575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN):
5736	18318	30753	0.64	1.0E-111	_	EST HUMAN	247b07.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:505045 5' similar to obM23575 PREGNANCY-SPECIFIC RETA-1 GI YCOPROTEIN CIPRECI IRSOR (HI IMAN).
683	L				BE867909.1	EST HUMAN	601443680F1 NIH MGC 65 Homo septens cDNA clone IMAGE:3847655 5'
6022	18596	31283	0.53	1.0E-111	U19969.1	NT	Human two-handed zinc finger protein ZEB mRNA, partial cds
6336	18894	31626	1.91	1.0E-111	Al344679.1	EST HUMAN	qp09g12.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1917574.3' similar to gb:M29893 RAS- RELATED PROTEIN RAL-A (HUMAN):
7049	Li	32378	1.11	1.0E-111	AL040762.1	EST HUMAN	DKFZp434C1815_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434C1815 5'
7196			1.29	1.0E-111	AW294648.1	EST HUMAN	UI-H-BW0-eil-d-03-0-UI.s1 NCI_CGAP_Sub6 Hamo sapiens cDNA clone IMAGE:2729525 3'
7643	20090	32942	0.53	1.0E-111	AW993165.1	EST_HUMAN	RC2-BN0033-160200-013-b05 BN0033 Hamo saplens cDNA

Top Hit Database Source	EST_HUMAN II.2-NT0101-280700-114-E03 NT0101 Homo saplens cDNA	Homo sepiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant A, mRNA mRNA	T HUMAN		zn62c12.r1 Strategene muscle 637209 Homo sepiens cDNA clone IMAGE:662774 5' similar to gb:X03740 EST_HUMAN MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);	2579903.11 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 6' slimitar to TR:G1256410 EST_HUMAN G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR.;		NT Human beta4-integrith (ITGB4) gene, exon 13	11420516 NT Homo sapiens nuclear factor of ectivated T-cells, cytoplasmic 2 (NFATC2), mRNA	EST_HUMAN 601847132F1 NIH_MGC_65 Homo eaplens cDNA clone IMAGE:4078303 6'		NT Human mRNA for integrin alpha-2 subunit	NT Homo seplens Trio isoform mRNA, complete ods	ea58g02.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825170 3' similar to gb:L09235 EST_HUMAN VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);	NT Homo sapiens RGH1 gene, retrovirus-tike element	EST_HUMAN 231f01.r1 Soares_pregnant_uterus_NbHPU Home explens cDNA clone IMAGE:503545 5		EST_HUMAN ILO-CT0031-221099-113-f06 CT0031 Homo sapiens cDNA	NT Humen thrombopoleth receptor (MPL) gene, exons 1,23,4,6 and 6	EST_HUMAN cn07a11.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn07a11 random	11417801 NT Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA	THUMAN	EST_HUMAN 7209 Human retina cDNA Tsp509I-cleaved sublibrary Homo sapiens cDNA not directional	NT Hano sepiens mRNA for neurealn I alpha protein, complete cds		NT (Human steroidogenic acute regulatory protein (StAR) gene, exon 5
Top Hit Acession No.	1.0E-111 BF366228.1	9961	761228		1.0E-111 AA133914.1	1.0E-111 AA278868.1	1.0E-111 AA278868.1	J66533.1	11420	1.0E-111 BF214902.1	X17033.1	X17033.1	1.0E-111 AF091395.1	1.0E-111 AA604160.1	D10083.1	1.0E-111 AA131248.1	1.0E-111 AW298467.1	1.0E-111 AW374340.1	U68159.1	1.0E-111 AI761071.1	11417	1.0E-111 AV708482.1	1.0E-111 W22562.1	AB035356.1		U29103.1
Most Similar (Top) Hit BLAST E Value	1.0E-111	1.0E-111	1.0E-111 AI	1.0E-111 U	1.0E-111	1.0E-111	1.0E-111	1.0E-111 U66533.1	1.0E-111	1.0E-111	1.0E-111 X	1.0E-111 X17033.1	1.0E-111]	1.0E-111 D10083.1	1.0E-111		1.0E-111	1.0E-111 U68159.1		1.0E-111					1.0E-112
Expression Signal	2.85	0.67	0.83	0.7	. 0.91	0.89	0.89	3.74	0.92	13.9	14.23	14.23	3.6	1.58	1.4	5.82	214	1.67	3.72	1.88	4.42	1.43	2.24	1.33	96.0	5.13
ORF SEQ ID NO:	33234	33342	1_			34037	<u> </u>				34612	34613	34745	35518			35966	_	36245	36651	37003	Ŀ	30771	30447		25598
Exen SEQ (D NO:	20369	20468	20476	20565	20762	21134	21134	21242	21553	21852	L	L	21831		22584		L	<u> </u>	23260		23924	1_	<u> </u>	18016		13183
Probe SEQ ID NO:	7932	8036	8044	8142	8347	8699	8699	8808	9121	9220	9268	9268	9389	10150	10163	10226	10539	10719	10824	11238	11587	12162	12293	12444	627	629

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
629	13193	25599	5.13	1.0E-112	U29103.1	NT.	Human staroidogenic acute regulatory protein (StAR) gene, exon 5
651	13215		2.37	1.0E-112	BF509039.1	EST_HUMAN	UI-H-BI4-act-g-04-0-UI,s1 NCI_CGAP_Sub8 Homo sapiens cDNA done IMAGE:3086023 3'
651	13216	25626	237	1.0E-112	BF509039.1	EST_HUMAN	UI-H-BI4-act-g-04-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
1028	13579	26020	2.76	1.0E-112	AF157623.1	N	Hamo saplens HTRA serine protease (PRSS11) gene, complete cds
1088	13634		0.97	1.0E-112	P52742	SWISSPROT	ZINC FINGER PROTEIN 135
1682	14211		2.54	1.0E-112	7662125 NT	IN	Homo sepiens KIAA0440 protein (KIAA0440), mRNA
1682			2.54	1.0E-112	7682125 NT	NT	Homo sepiens KIAA0440 protein (KIAA0440), mRNA
1795	14320		1.03	1.0E-112	AF248540.1	N	Homo saplens Intersectin 2 (SH3D1B) mRNA, complete cds
2415	14919	Ì	7.62	1.0E-112	BE866859.1	EST_HUMAN	601442674F1 NIH_MGC_65 Homo saplens cDNA clane IMAGE:3846858 5'
3040	15595	,	0.78	1.0E-112	4504116 NT	LX	Homo saplens glutamate receptor, tonotropic, kainate 1 (GRIK1) mRNA
3204	15756	28174	2.18	1.05-112	BE083092.1	EST_HUMAN	RC2-BT0642-030400-021-d09 BT0642 Homo saplens cDNA
3204	15756	28175	2.18	1.0E-112	BE083092.1	EST_HUMAN	RC2-BT0642-030400-021-d09 BT0642 Homo saplens cDNA
3336	15883	28304	0.75	1.0E-112	AI826511.1	EST HUMAN	wk45b12.x1 NCI_CGAP_Pr22 Homo saplens cDNA clone IMAGE:2418335 3' similar to gb:M81650_ma1 SEMENOGELIN 1 PROTEIN PRECURSOR (HUMAN);
3893	16428	28834	0.81	1.0E-112	BE076073.1	EST HUMAN	MR2-BT0590-090300-113-f09 BT0590 Homo sapiens cDNA
4844	17160	29539	0.63	1.0E-112	4504118 NT	LN.	Homo sapiens glutamate receptor, tonotropic, kainate 1 (GRIK1) mRNA
4806	17319		5.45		AB037832.1	LN	Homo saplens mRNA for KIAA1411 protein, partial cds
4806			5.45		AB037832.1	NT	Homo seplens mRNA for KIAA1411 protein, partial cds
5936		31200	47.31	1.0E-112	N46046.1	EST_HUMAN	yy35d07.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:273229 5'
6384	i		1.32		AF149773.1	F	Homo sapiens NOD1 protein (NOD1) gene, exans 1, 2, and 3
6458	1				Г	EST_HUMAN	UI-HF-BROp-els-g-06-0-UI-1 NIH_MGC_52 Homo saplens cDNA clone IMAGE:3075658 61
6458	_				AW502437.1	EST_HUMAN	UI-HF-BR0p-sis-g-08-0-UI:r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3075668 5'
6571	_ [BE741666.1	EST_HUMAN	601594717F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3948667 6'
6804	18348	32118	0.57	1.0E-112	BF672815.1	EST_HUMAN	602152649F1 NIH_MGC_B1 Homo sapiens cDNA clone IMAGE:4293420 57
6669	19535		٠	1.0E-112	BE273103.1	EST_HUMAN	801142755F1 NIH_MGC_14 Homo saplens cDNA clone IMAGE:3506508 5
6669			0.7		BE273103.1	EST HUMAN	601142755F1 NIH_MGC_14 Home saplens cDNA clone IMAGE:3506508 6
7238			1.3	1.0E-112	BF574235.1	EST_HUMAN	602131405F1 NIH_MGC_81 Hamo sapiens cDNA clone IMAGE:4270921 5
7696	20045	32895	89.0	1.0E-112	AL043299.1	EST_HUMAN	DKFZp434M0523_11 434 (synonym: https://dx. htmlosquiens.cDNA.clone.DKFZp434M0523.5
7803	20245	33104	1.67	1.0E-112	11416777 NT	NT	Homo sapiens solute carrier family 8 (neurotransmitter transporter, L-proline), member 7 (SLO6A7), mRNA
7803		33105	1.67	1.0E-112	11416777 NT	뉟	Homo saplens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLCSA7), mRNA
8770	21204	1	1.15	1.0E-112	AU118051.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
9313	_ [34652	2.79	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Hamo saplens cDNA clone IMAGE:3847285 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	sslon	Top Hit Datebase Source	Top Hit Descriptor
9313	21745	34653	2.79	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo saplens oDNA clone IMAGE:3847285 6'
9965	22367	35316	2.58	1.0E-112	BF111413.1	EST_HUMAN	730g07.x1 Soares_NSF_F8_9W_OT_PA_F_S1 Homo sapiens cDNA clone IMAGE:3523020 3' similar to TR:09VW35 Q9VW35 CG8743 PROTEIN;
10562	23009	35986	63.74	1.0E-112	AW863327.1	EST_HUMAN	MR3-SN0009-100400-108-b12 SN0009 Homo eapiens cDNA
10727	23165		2.51	1.0E-112	AJ249900.1	LN	Homo saplens mRNA for secreted modular calcium-binding protein (smoot gene)
10882	23315	36312	2.64	1.0E-112	BE280479.1	EST_HUMAN	601166323F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3138989 6'
10938	23370	36379	2.75	1.0E-112	Al792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kld3 Homo seplens oDNA done IMAGE:1869902 6' similar to TR:Q64362 Q84362 FUSED TOES ;
10938	23370	36380	2.75	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo septens cDNA clone IMAGE:1869902 6' simiter to TR:Q84362 Q84362 FUSED TOES;
10958	23387	36397	6.01	1.0E-112	AW377670.1	EST_HUMAN	PM0-CT0237-141099-001-h02 CT0237 Homo sepiens cDNA
11510	23868	36945	1.9		M20707.1	Z	Human kappa-Immunglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
763	13323		7.42	1.0E-113	Al365586.1	EST_HUMAN	ao96f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
763	13323		7.42	1.0E-113	AI365586.1	EST_HUMAN	ao98f01.x1 Schiller meningloma Homo saplens cDNA clone IMAGE:1953625.3'
996	13519		3.47	1.0E-113	M11985.1	NT	Human X-linked phosphoglycerate kinase gene, exon 8
1564	14096		3.96	1.0E-113	Al365586.1	EST_HUMAN	ao95f01 x1 Schiller meningioma Homo sapiens oDNA clone iMAGE:1953825 3'
1890	15265			1.0E-113	AF240775.1	TN	Homo sapiens elF4E-transporter mRNA, complete cds
2352	14857		1.37		AJ006976.1	NT	Homo sapiens PLP gene
3091	15645	28056	2.58		AJ223948.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
5494	24715		2.74		BE780858.1	EST_HUMAN	601469465F1 NIH_MGC_67 Hamo saplens cDNA clone IMAGE:3872536 5
5763	18335	-				EST_HUMAN	AU127214 NT2RP2 Homo sepiens cDNA clone NT2RP2000807 5
6102	18671					EST_HUMAN	601476286F1 NIH_MGC_68 Hamo sapiens cDNA clane IMAGE:3879406 6'
6102	18671		0.49			EST HUMAN	601476296F1 NIH_MGC_68 Hamo saplens cDNA clone IMAGE:3879406 5'
6219	18785	ı	4.43	1.0E-113	AU140291.1	EST_HUMAN	AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5
6249	18813	31528	+	1.0E-113	AF016535.1	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6376	18934	31672	2.99	1.0E-113	11625737 NT	FX	Homo sapiens UDP-N-acetyl-elpha-D-galactosæmine:polypeptide N-ecetytgalactosaminytransferase 8 (GalNd⇔T8) (GALNT8), mRNA
04.1						!	Homo saplens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B,
2	C7081	10/15	LO.O.	1.0=-113	8801Z48IN	2	ANNUM
6470	19025	31762	0.61	1.0E-113	9961249 NT	Ę	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6844			7.70	1.0E-113	6006002 NT	Ę	Homo sapiens glutamata receptor, konotropic, N-methyl D-espartata 2A (GRIN2A) mRNA
6844	19192	31944	72.0	1.0E-113	6006002 NT	TN	Homo saplens glutamete receptor, konotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression. Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Detabase Source	Top Hit Descriptor
6341	L		0.93	1.0E-114	AW 294203.1	EST HUMAN	U-H-Bizabod-01-04 II st NCI CZGAP Subt Homo conjone child ale and the library
5349	17848	30205	2.34	1.0E-114	•	L L	Homo saplens PKY protein kinasa mRNA, complete cds
6658	18242	30639	1.57	1.0E-114	4508880 NT	Ę	Homo sepiens seme domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplesmic domain, (semaphorin) 5A (SEMA5A) mRNA
5656	18242	30640	1.57	1.0E-114	4508880 NT	Ę	Homo saplens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain
5862		31116	1.17	1.0E-114		Ę	Homo saniens clathor heavy polymenthal like 4 (2) TO 4.
6546	19098	31840	0.53	1.0E-114	Z26298.1	Ā	H. saplens (saform 1 gene for 1 Aca calcling theman 1 com an
7416	18085	30379	72.0	1.0E-114	4759163 NT	Ę	omo saniane enare/netooneetis euw
7510			0.7	1.0E-114	AB04153	L	Homo sapiens HCM/OGT-1 mBNA for some series 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
7688		32988	1.12	1.0E-114/		EST HUMAN	AUGA187 OVARCA Homo sentence ONA state OVARCA COMPANIA
7688			1.12	1.0E-114 A	AU134187.1	EST HUMAN	AU134187 OVARC1 Homo sapiens CDNA clone OVARC1001444 5
7739			9.04	1.0E-114	1.0E-114 Y18000.1	TN	Homo septems NF2 contract agreement of the contract of the con
7739			9.04	1.0E-114 Y18000.1		NT	Homo sapiens NEO nepa
8554	ı		2.14	1.0E-114	4557600	IN.	Omo sanjena rama emirchibeir odd (CADA) A
8761	- 1		1.74	1.0E-114 A	1363139.1	EST HUMAN	OVERAGE AT NOT CRAP Brose Liverage Control (1972) A receptor, april 2 (GABRAZ) mRNA
8751			1.74	1.0E-114 A	1363139.1	Т	GORGEON NO. COAP Prof. Home content of the James of the J
8136	21568		2.78	1.0E-114 U	63041.1	Т	Human neural cell adheets malecule Obea = DNA con-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
9188		34531	7.41	1.0E-114	-	Į.	Hamo sablens mRNA for KIAA0581 meleting meleting and 1.4.
9188	21620	34532	7.41	1.0E-114		LN L	Homo saplans mRNA for KIAAnEsa zaching and a
9462	21893	34814	1.79	1.0E-114		1444	7/69912.x1 Scares_NSF_F8_gwOT_PAS1 Homo sapiens cDNA done IMAGE:3526847 3' similar to
9631	22046		4.23	1.0E-114		Т	AAAAAA MIL MOO OII
9996	20956	33858	2.86	1.0E-114		N.	Have contained a runing sequents CONA clothe INVACE:2846744 5
9729			1.41	1.0E-114 M		Т	Himan caribologue w DNA
10143	22544	35513	1.08	1.0E-114	E870004 1	Т	TANDAS SELECTION OF THE PROPERTY OF THE PROPER
10156	22557	35525	1.18	1.0E-114		Т	Homo gaplana christophera 24
10400	22800	35778	0.94	1.0E-114	Ì	EST HUMAN	MR0-HT0559-250200-002-002-002-002-002-002-002-002-
-						$\overline{}$	ba73g12 yf NIH MGC 20 Homo sapiens cDNA clone IMAGE-20n8nag 51 circling to the control of the co
10569	23016		12.39	1.0E-114 BI	F302666 1	EST ELIMAN	RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element,
10965	23394	36405	10.35	1.0E-114	V733464.1	Т	AV733454 cda Home senione 20NA sizes 24/18/00 El
10965	23394	36406	10.35	1.0E-114		EST HIMAN	AV 2014 CLA CLA CLAN CONTROL C
	1			1	١	7	AV 735454 cdA Hamo sepiens cDNA clone cdABA08 5

		T	Т	Т	Т	Т	Т	Т	٦	٦	Т	Т	П	Т	T	<u> </u>		Г	П			Т	Т	Т	Т	7	٦	7	7	7		Т	_
Single Exoll Flobes Expressed in Lung	Tap Hit Descriptor	AV733454 cdA Homo saniens cDNA clone cda Bank 5'	AV733454 cdA Homo gentens cDNA clone ada Bano 67	602/34549F1 NIH MGC 81 Homo seniem CONA class NACE: 12000 EEO E	1602/34549F1 NIH MGC 81 Homo contains CDNA claim INA CE AZOSOSOSOSOSOSOSOSOSOSOSOSOSOSOSOSOSOSOS	601286613F1 NIH MGC 44 Homo contain Child Allows 114 CE 50428500 5	601286813F1 NIH MGC 44 Homo sapiens CDNA clore MAAGE 3513514 5	Homo saplens TNF-Inducible protein C312-1 (C312-1) mBNA	Hamo sapiens hypothetical propein (D.1402X40.2) mDNA	Homo sapiens hypothetical protein (D 100204.0 0) m.DNA	Homo saplens H.A-B associated transcript. (Inscript.)	Homo saplens polymerase (RNA) II (NNA directed) polymerate A (Appl. D) (Roy Dow)	Homo seplens kerejin 18 (KRT48) mBNA	QV4-UM0094-300300-156-b08 UMmod Homo emison - DNA	quoen La NCI_CGAP_GC4 Home sepiens cDNA clone IMAGE:1946809 3' similar to TR:000636 000636	quotro 1.x1 NOL CORAP. GC4 Homo septens cDNA clone IMAGE:1946809 3' similar to TR:000536 000536	I I'L IN I EKACI ING PEP I IDE 5;	House sapiens dansorming grown ractor beta-activated kinase-binding protein 1 (TAB1), mRNA	Induse satisfies transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA	Home contact clare of the contact of	Homo saniens sinhe aminominations semisadenyae synthase mKNA, complete cds	OV4-UM0094-300300-15R-h08 I Minos Home series mixing, complete cds	Homo saplens mRNA for elaba-tribulin 8 /TI IBA8 anns)	Homo saplens mRNA for alpha-tubulin 8 (TI IRA8 gene)	Homo saplens partial T IN gene for titin	Homo saciens mRNA for KIAA0350 profession porties As	Novel human dene manning to chomosome V	Homo saplens sir 2, ille 3 (SIPTa) mona	Homo seriens EnhAd (EDHAd) mBNA	Novel human mRNA from chrimosome 4 which has always and the party	Navel human mRNA from chromosome 1 which has a militaries to 54 i 2 genes	Homo saplens chromosome 21 segment HS21CARR	Hamo seriens chromosome 24 serment H921000
פופ באטוו הינ	Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	LZ	LZ	Į.	N.	F	Į.	EST HUMAN	EST HIMAN		ESI HUMAN			Ę	FX	EST HUMAN	N F	Į.	LN L	NT	E	12		E	Z	LN.	LN
	Top Hit Acession No.	AV733454.1	AV733454.1	BF574757.1	BF574757.1	BE391856.1	BE391856.1	11418041 NT	11034850 NT	11034850 NT	4758111INT	4505938 NT	4657887 NT	AW804759.1			74705	547A702 NIT	4503794 NT	AF229180 1				AJ245922.1	AJ277892.1		Γ	12659	4758279 NT	4L096857.1			
	Most Similar (Top) Hit BLAST E Value	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-115	1.0E-116	1.0E-116	1.0E-115	1.0E-115	10 T	10F-115	1 0F-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-116	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-116	1.0E-115
	Expression Signal	10.78	10.76	224	224	3.04	3.04	5.55	4.1	4.1	3.85	1.6	5.58	2.9	1.45	1 48	0.77	0.77	131.74	0.95	0.95	1.11	2.25	2.25	2.17	4.72	0.68	2.94	4.49	3.03	3.03	3.97	3.97
	ORF SEQ ID NO:		36715	36873	36874		36947			68808		25159		26320	25635	.25538	25803	25804	25806	26576	26577		28037	28038	28411	28976	29192	29336	29368	29617	29618	29862	29863
	_ <u>w</u>													12901	13126	13126	13367	13367	13369	14111	14111	15363	15630	16630	15992	16586	16808	16946	16985	17237	17237	17485	17485
	Probe SEQ ID NO:	11302	11302	11454	11454	11611	11511	12060	12344	12344	ន	\$	138	306	554	554	608	g	811	1580	1580	2806	3078	3076	848	4084	4283	4425	4465	4721	4721	4974	4974

		_	-		_					_	_	_																
	Top Hit Descriptor	Homo saplens interleukin 1 recentric type I (II 4R4) mRNA	EST382418 MAGE rasponences MAGK Homo conjune conjune	802118346F1 NIH MGC 58 Homo saniens cDNA clone IMAGE-4278738 F	Homo sabiens similar to ER to nucleus signalling 1 (H. saniens) (1 Octaviza) mbwy	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433) mRNA	au94g01.x1 Schneider fetal brain 00004 Homo sepiens cDNA clone IMAGE:2519568 3' similar to gb:L07807 DYNAMIN-1 (HUMAN);	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb:L07807 DYNAMIN.1 HI IMAN :	Homo saciens sperm surface protein (HSS) mBNA	Homo saplens sperm surface protein (HOS) millans	Homo saplens similar to ribosomal ombeh S28 (H. sanians) // OCK3438) mDNA	Homo saplens KIAA0054 dene modinit Helicase (KIAA0054), monte	Homo sapiens KIAA0054 gene product: Helicasa (KIAA0054), mRNA	yd86b08.r1 Soares fetal tiver spieen 1NFLS Homo sapiens CDNA clone IMAGE:115095 5' similar to SP:DPOG YEAST P1501 DNA POI VAIEDACE CAMAIA.	0231808.x1 Soares total fetus Nb2HF8 9w Homo senions child Alone 1440 Estatedado	0231806.X1 Soares total fetus Nb2HF8 9w Homo seniers CDNA clone IMAGE: 187894.4.2	Homo saplens mRNA for KIAA0995 protein partial cris	RC8-ET0081-130700-011-G01 ET0081 Homo septems CDNA	RC8-ET0081-130700-011-G01 ET0081 Homo saplens cDNA	Homo saplens eukeryotic translation Intitation factor 43 (EIF4B), mRNA	Human mRNA for KIAA0338 gene, partial cds	Human mRNA for KIAA0338 gene, partial cds	qg99e09.x1 Soares NFL, T GBC S1 Homo sablens cDNA clone IMAGE: 1843338 3'	qg89e09.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:1843338 3'	x32708.x1 NCI_CGAP_Ut1 Hamo septens aDNA clone IMAGE:2839239 S' similar to SW:CAYP_CANFA P10483 CALCYPHOSINE:	hq54c10.X1 NCI_CGAP_Pan3 Homo seplens cDNA clone IMAGE:3123188 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG:	hq54c10.x1 NCI_CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123188 3' similar to TR:088378 088378 PRP4 PROTEIN KINASE HOMOI OC.	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA
21 21 21 21 21 21 21 21 21 21 21 21 21 2	Top Hit Database Source	ΙΝ	EST HUMAN	EST HUMAN	N	LN	EST HUMAN	EST HUMAN	NT	L	F	Ł	N TN	EST HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	EST_HUMAN	N N	TN	NT	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT
	Top Hit Acession No.	4504658 NT	AW970335.1		11425128 NT	11425128 NT	Al928799.1	Al928799.1	11426786 NT	11426786 NT	11426038 NT	7861883 NT	7661883 NT	T86774.1	-	AI076598.1	AB023212.1	BE830187.1	BE830187.1	34772				AI221878.1	AW671644.1		BE045890.1	12528
	Most Similar (Top) Hit BLAST E Value	1.0E-115	1.0E-115	1.0E-115	1.0E-116	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115
	Expression Signal	2.61	224	1.05	1.78	1.76	0.91	0.91	0.53	0.53	14.7	1.82	1.82	0.49	1.39	1.39	8.12	10.9	10.9	2.26	2.13	2.13	-	Ŧ	4.63	2.34	2.34	2.51
	ORF SEQ ID NO:	30218			31046	31047	31222	31223	31881	31882	32040		32184	32561	33035		33183						35756	35757	35933	36474		36571
	Exan SEQ ID NO:	17860	18189	18265		18385	18537	18537	19135	19135	19278	19419	19419	19756	20176	20178	20327	21179	21179	21865	22435	22435	22787	22787	22952	23454	23464	23533
	Probe SEQ ID NO:	6362	5601	9999	5805	5805	5961	5961	6584	6584	6732	6879	6879	7344	7732	7732	7888	8745	8745	8223		10033	1038/	19387	10503	11027	11027	11152

Probe SEQ ID NO: 11611 589	Exen SEQ ID NO: 23942 13169 13381	ORF SEQ ID NO: 26683	Expression Signal 1.47 2.08	§ c m	Top Hit Acess No. AF240786.1 BE275602.1 4507	Top Hit Database Source NT EST HUMAN NT	Top Hit Database Source NT Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) BST_HUMAN GO1121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2888875 5' Homo sapiens synaptojanin 1 (SYNJ1), mRNA
1940 1940	13437 14459 14459	26962	1.79	1.0E-118 1.0E-116 1.0E-116	4507334 NT 5174478 NT 517478 NT	F F F	Homo septens synaptolanin 1 (SYNJJ), mRNA Homo septens pericentrin (PCNT) mRNA Homo septens pericentrin (PCNT) mBNA
2202		111	3.08	1.0E-116	6453941 NT U78308.1 NT	TN TN	Homo septens protein in Travi) many Homo septens protein 1 (PPEF1) mRNA Homo septens protein phosphatase, EF hand calctum-binding domain 1 (PPEF1) mRNA Human offactory receptor offr17-201-1 (OR17-201-1) gene, offactory receptor offr17-32 (OR17-32) gene and offactory receptor pseudo_offr17-01 (OR17-01) pseudopene, complete eds
2890			9.78	1.0E-116 A 1.0E-116 B	1.0E-116 AB018333.1 1.0E-116 BE889266.1	NT EST_HUMAN	Homo sapiens mRNA for KIAA0780 protein, parital cde 601613337F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914800 6*
3133 4400	15886 16922	28102 28307	3.51	1.0E-116 1.0E-118	L77570.1 NT L77570.1 NT 6031054 NT	L L	Homo saplens DiGeorge syndrome critical region, centromeric end Homo saplens DiGeorge syndrome critical region, centromeric end
4913 5165	L		151	1.0E-116 A	1907096 158109.1	EST HUMAN	PM-BT135-070499-016 BT135 Homo sepiens cDNA Mus musculus nebulin mRNA neetle case.
5165 5469	17669	30312	16.21 11.95	1.0E-116 U	U58109.1 Al221878.1	NT EST_HUMAN	Mus musculus nebulin mRNA, partial cds qg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clane IMAGE-1843336.31
5530	18120	30476	0.8	1.0E-116 A	Al302062.1	EST_HUMAN	qn19d04.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898695 3' almilar to contains element MER25 repetitive element;
6279	18841	31559	2.54	1.0E-116	1.0E-116 W42822.1	EST_HUMAN	zc24d07.r1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:323246 5' similar to SW:MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR;
6528	Ш	31821	2.07	1.0E-116	1.0E-116 AB048858.1	ž	Homo sepiens mRNA for KIAA1636 protein, partial cds Homo sepiens mRNA for KIAA1638 protein, partial cds
6601 6733	19152 19279	31900	1.05	1.0E-116 1.0E-118	1.0E-116 BE408097.1 1.0E-116 BF677910.1	EST_HUMAN	601302281F1 NIH_MGC_21 Hamo sepiens cDNA clone IMAGE:3636764 61
6850	19391	32165	0.76	1.0E-116	5729867 NT	E	Homo sapiens heat domain and RLD 2 (HERC2), mRNA
6864			1.66	1.0E-116	1.0E-116 BE158133.1	EST_HUMAN	Truino seprensi neca domain and RLD 2 (HERC2), mRNA MR2-HT0378-210200-102-b04 HT0379 Homo sapiens cDNA
7848	20094	32623	11.06	1.0E-116	1.0E-116 C02944.1 1.0E-116 AV716314.1	EST HUMAN	C02944 Human heart cDNA (YNakamura) Homo saplens cDNA clone 3NHC0567
8907	21341	34256	1.61	1.0E-116	1.0E-116 AA354256.1	П	EST82685 Jurkat T-cells V Homo septens cDNA 5' and stmilar to similar to keratin 2

	Γ	T	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	П	Т	Т	Т	٦	Т	7	Т	Τ̈́	Т	Т	1	7	Т	Т	Т	Т	Т	1	Т	T
יינות בארון ומדפס באנות וון בתוום	Top Hit Descriptor	EST20111 Cerebellum II Homo sapiens cDNA 5' end similar to similar to similar to sinc finner dramein	Homo sapiens nuclear hormone recentor (sho) nene. 2' end of Ade	Homo sabiens nuclear hormone recentor (sho) dene 3 and of ode	1AV717788 DCB Hano sanians cDNA clane DCBRAER1 F	AV717788 DCB Homo sapiens cDNA clone DCBRAEA1 5'	Human gana for very low density lincomptein recentor, some 14	601569317F1 NIH MGC 21 Homo seniens cDNA clone IMAGE:3243748 F	Homo sapiens Droscohila Kelch like protein (DKEL CHI) mRNA	Human mRNA for KIAA0191 gene, pertiel ods	283b11.1 Soures_fetal_heart_NbHH19W Homo sapiens cDNA ctone IMAGE:347229 5' similar to db:M14219 BONE PROTEOGI YCAN II PRECLIES OR JHTINAAN.	Homo sanians armain (nonfided army distriction)	Homo seciens protein (pentid-brown rishers) Nima Inc. 1 (2011), mKNA	Homo sonions mRNA for MECER posted case	Homo scolens mRNA for MRCES notice of	601486203E1 NIH MGC 8 Home contact Child alice MACE of 12000 FI	Homo saplens ATP-hinding rescette sub-family A (ABC4)	Homo sariene A TD hinding encounts only female A ABDA	Indiacio et NCI Coab Phat Lema accine Colo 11, mandaria (ABCA3), mKNA	Incode12.31 NCI. CGAP. Phet Hamo sapiens cDNA clone IMAGE-1089/02.3	Homo septens mannostdesse, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3	Homo saciens HSPC151 mRNA complete cds	DKFZD4341058 r1 434 (synonym: htee3) Home ceniess cDNA class DKFZ-4341659 F1	Homo sepiens hypothetical protein (D.1328E19 Ct. 1). mRNA	Homo saplens sine coulls homeohow (Diosembile) homeomy (70174) mbn/A	601281947F1 NIH MGC 44 Home semiens child clara MACE 260404 El	601281947F1 NIH MGC 44 Home sanlens china chara MAGE-3804018 5	801281947F1 NIH MGC 44 Homo sarions colvid living living constant of the const	EST363799 MAGE resemblances MAGE Home contain ANIA	Human breakpoint chister region (BCR) nans complete ad-	Human breakocint cluster renion (RCR) gene, complete ode	Homo sapiens PRKY exon 7	qp01f05.x1 NCI_CGAP_Kid6 Hamo sapiens cDNA clone IMAGE:1918789.3'
	Top Hit Database Source	EST HUMAN	NT	E	EST HUMAN	EST HUMAN	LZ	EST HUMAN	Į.	NT	EST HUMAN	Į.	L	LN	LN L	FST HUMAN	·1	Ę	EST HIMAN	EST_HUMAN	5	۲	EST HUMAN	17	 	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT	Z	N FN	EST_HUMAN
5	Top Hit Acession No.	AA323348.1	L76571.1		2	AV717788.1	Γ	7.	20222	D83776.1	W80505.1	11424836 NT	11424835 NT	AB011541.1	Γ		11848	4501848 NT	AA584764 1	Γ	AF224669.1		4L045854.1	7657016 NT	5174680INT	3E389705.1	Γ	Ī	W951729.1	107000.1		13832.1	1347694.1
	Most Similar (Top) Hit BLAST E Value	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-118/	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118 A
	Expression Signal	0.67	6.1	6.1	3.63	3.53	1.39	2.16	1.01	3.19	16.74	3:44	3.44	2.67	2.67	71.28	6.62	6.62	1.95	1.95	1.66	3.25	. 2.58	6.64	1.59	2.73	2.73	2.73	3.87	6.67	9.57	4.62	5.84
	ORF SEQ ID NO:		33238	33239	69888					36064		36233	36234		36485		36760			36927		25102	25128	25518	25934	27176	27177	27178		27700	27701		28125
	Exon SEQ ID NO:				20492				22812	23080	23236	23250	23250	23470	23470	23529	23706	23706	23854	23854	24894	12692	12715	13107	15297	14654	14654	14654	14734	15188	15188	15619	15705
	Probe SEQ ID NO:	7371	7935	7935	8061	8081	9550	9888	10412	10639	10799	10814	10814	11044	11044	11148	11342	11342	11496	11496	11860	73	88	535	937	2141	2141	2141	2224	2697	2697	3065	3152

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslan No.	Top Hit Database Source	Top Hit Descriptor
11038	23465	36486	1.72	1.0E-118	11055968 NT	Ę	Homo sepiens protein with polyglutamine repeat; calcium (ca2+) homeostasis endoplasmic reliculum protein (ERPROT213-21), mRNA
11047		36499	11.3	1.0E-118	1.0E-118 AA315007.1	EST HUMAN	EST188814 HCC cell line (matastasis to liver in mouse) If Homo sapiens cDNA 6' end similar to dynein, light chain 1, conclosemic
11310			4.12	1.0E-118	1.0E-118 BE908676.1	EST HUMAN	60/4995/4F1 NIH MGC 70 Homo semiene cDNA clean INA OF condesce #1
11310			4.12	1.0E-118	1.0E-118 BE908678.1	EST HUMAN	601499614F1 NIH MGC 70 Homo seniens con A close IMA OE:2001663 5
11313	٠ ا	36728		1.0E-118	BF093687.1	EST HUMAN	0V0-UM0091-120000-385-h12 LIM0001 Home semicas a 0NA
11313	23677	36729	3.47	1.0E-118	1.0E-118 BF093687.1	EST_HUMAN	QV0-UM0091-120900-385-b12 UM0091 Homo saniens CDNA
11479		36905	1.83	1.0E-118	1.0E-118 BE218235.1	EST HIMAN	hv38a08x1 NCI_CGAP_Lu24 Horro septens cDNA done IMAGE:3175474 3' similar to TR:Q922H4
11541	\Box	36981	2.82	1.0E-118		N L	Human mRNA for KIAA0241 nana nadial ada
778		25772	2.46	1.0E-119		Ę	Home conjugación de constante d
1062	L	26047	0.85	1.0E-119	35807	Į.	Homo septens aniande channel CLC4 (CiC4) mRNA, camplete cas
1884	14405	26900	29	1 0F-110	AB0234474		Tulio septerts COF100 protein (LOCS1011), mRNA
	L			130		Ž	Homo sapiens mKNA for KIAA0930 protein, partial cds
2419	14922	27439	4.98	1.0E-118	1.0E-119 AA912739.1	EST_HUMAN	ol41c12.81 Soares_NFL_T_GBC_S1 Hamo sepiens cDNA done IMAGE:1525038 3' similar to gb:M94055 SODIUM CHANNEL PROTEIN, BRAIN II ALPHA SUBUNIT (HUMAN)
3199	15751		2	1.05-119	1.0E-119 AAG16760 1	FOT LINANI	on10b05.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1656241 3' similar to WP-E04F6.2
3966	16501	28909	9.	: 1.0E-119	4504116	4504116 NT	Long contain at the contains the contains and contains an
5591	18179	30544	4.35	1.0E-119 AL	1133399 1	EST HIMAN	Al Manage National Managers, John Communication (GRIKT) mRNA
5604	18182	30557	12.83	1.0E-119	39914.1	NT	Himan belingflyzmin (NE4)
5810	18198	30564	3.6	1.0E-119	5	EST HIMAN	RCI-NN072-250800-048-08 NN022-U-
0699		30696	1.61	1.0E-119		EST HUMAN	AV693731 GKC Homo seniens cDNA close CKCOLIDea = 1
5857	_1	31110	1.03	1.0E-119		EST HUMAN	DKFZp762M0710 r1 762 (swown hmel2) Home captons of MA alexanders as the second of the
5857	18436	31111	1.03	1.0E-119	1.0E-119 AL134903.1	EST HUMAN	DKFZp762M0710 1762 (smonym: hmel2) Homo saplens cDN4 chare DKFZp762M0740 =:
6440	18996	31727	7.29	1.0E-119 AI	150703 1	FOT HIMAN	4b77c09.xt Soares fetal heart NbH199W Homo seplens cDNA clone IMAGE:1706128 3' similar to
6608	19159	31807	99'0	1.0E-119	-315683.1	TN	Homo sanions metric mobilizations as (Micros) Ent.
8099		31908	99'0	1.0E-119		LN L	Homo saniens matrix matellarmatelance 26 (MAMPSO) - DATA
6661	19209	31957	1.19	1.0E-119		EST HUMAN	thr28/10 x1. Sharps NET T CBC S4 Long and Linkly Compiles Cds
6805	19347	32119	2.59	1.0E-119 X06292.1		NT	Human of selfine make an expension appears cultive cide IMACE 216/4613
6817	19358	32135	4.06	1.0E-119		T HUMAN	EST386298 MAGF recentlement MACM Home conference
7890	20329	33195	1.26	1.0E-119	Π	Т	601592005F1 NIH MGC 7 Homo seplens cDNA close IMAGE-3046684 F1
	•					7	O LONGE TOWARD CHIEF THE TOWARD CONTRACTOR

	Top Hit Database Top Hit Descriptor Source	Homo septens dNT-2 gene for mitochondrial 5(3) Accovribonucleotidase (dNT-2 gene). exons 1-5	HUMAN		Г				Г	Г					\vdash	T	Homo saplans dishhagrin and metalloprotease domain 10 (ADAM10) mRNA				Homo sapiens synaptojanin 1 (SYNJ1), mRNA	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, pertial cds	Homo sapiens cAMP-specifio phosphodiesterase 8A (PDE8A) mRNA, partial ods	Homo sapiens stanniocaldin (STC) gene, partial cds		Г	Г				Human TBXAS1 gene for thromboxane synthase, exon 7	Homo sapiens mRNA for KIAA0960 protein, partial cds	Human gene for neurofilament subunit M (NF-M)	Human gene for neurofilament subunit M (NF-M)
,	op Hit Acession Database No. Source	J277557.1 NT	Ι⊢'	38643	485124.1 EST HUMAN	J297701.1 NT		297701.1 NT	669571.1 EST HUMAN	W847519.1 EST HUMAN	B018301.1 NT	4507334 NT	248540.1 NT	248540.1 NT		F167706.1 NT	4557250 NT	1011399.1 NT	B011399.1 NT	4755124 NT	4507334 NT		П		F098463.1 NT	F568222.1 EST_HUMAN	F568222.1 EST_HUMAN	6912583 NT	39428.1 NT	9428.1 NT	4619.1 NT	1023177.1 NT	0067.1 NT	0067.1 NT
-	Most Similar (Top) Hit BLAST E Value	1.0E-119 A.	1.0E-119 BE	1.0E-119	1.0E-119 AA486124.1	1.0E-119 A.	1.0E-119 AJ297701.1	1.0E-119 AJ297701.1	1.0E-119 BF569571.1	1.0E-119 AV	1.0E-120 AE	1.0E-120	1.0E-120 AF248540.1	1.0E-120 AF248540.1	1.0E-120 N44873.1	1.0E-120 AF	1.0E-120	1.0E-120 AB011399.1	1.0E-120 AE	1.0E-120	1.0E-120	1.0E-120 AF056490.1	1.0E-120 AF056490.1	1.0E-120 AF098463.1	1.0E-120 AF	1.0E-120 BF	8	1.0E-120	1.0E-120 M29428.1	1.0E-120 M29428.1	1.0E-120 D34619.1	1.0E-120 AB023177.1	1.0E-120 Y00067.1	1.0E-120 Y00067.1
	Expression Signal	0.49	1.1	66'0	2.27	1.08	3.37	3.37	24.2	2.8	3.08	66.0	3.5	3.5	2:35	3.62	2.47		2.58	10.12	1.14	1.6	1.6		2.41	16.29	16.29	0.44	0.42	0.42	1.59	0.45	1.53	1.53
	ORF SEQ ID NO:	33408	34449	35326	35575	35747	36257	36258				25329	26053	26054		26820				27452		29285	29286	29805	29606					32094	33395			33890
	Exan SEQ (D NO:	20529	21545		22610		23270		23404			12910	Н		13988	14149				14937		16901		_[17222	18585	18585						20882	20892
	Probe SEQ ID NO:	8103	9113	9974	10209	10379	10835	10835	10975	11917	260	315	1066	1066	1458	1618	1782	2028	2028	2434	3272	4379	4379	4706	4706	6011	6011	6821	6783	6783	808	8492	8557	8557

Table 4
Single Exon Probes Expressed in Lung

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Siligio Exoli Florica Explosect III Edilig	Top Hit Descriptor	602035352F1 NCI_CGAP_Bm64 Hamo saplens cDNA clone IMAGE:4183333 5'	Homo saplens mRNA, chromosome 1 specific transcript KIAA0495	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495	Homo saplens mRNA for KIAA0465 protein, partial cds	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3825544 5	601307739F1 NIH_MGC_44 Homo sapiens cDNA clane IMAGE:3626644 6'	601888956F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5'	AU133205 NT2RP4 Homo saplens cDNA done NT2RP4001541 5	Novel human gene mapping to chomosome 13, similar to rat RhoGAP	Homo sapiens mRNA for KIAA1077 protein, partial cds	601694806F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3948769 5'	601176727F1 NIH_MGC_17 Hamo sapiens cDNA clone IMAGE:3532016 6'	601443135F1 NIH_MGC_65 Hamo saplens cDNA clane IMAGE;3847281 6	601443135F1 NIH_MGC_65 Hamo sapiens cDNA clane IMAGE:3847281 6'	Homo saplens NF2 genie	AU134963 PLACE1 Homo sapiens cDNA done PLACE1000899 5'	Homo saplens TNF receptor-associated factor 1 (TRAF1) mRNA	Homo saplens inosital polyphosphate 4-phosphatase, type I, 107kD (INPP4A), spilce variant a, mRNA	Homo sepiens inositol polyphosphate-4-phosphatase, type I, 107kD (INPP4A), splice variant a, mRNA	Homo saplens serine palmitoyl transferase, subunit II gene, complete cds, and unknown genes	Homo sapiens hHb3 gene for hair keratin, exons 1 to 9	Hamo saplens hHb3 gene for hair keratin, exons 1 to 9	Horno saplens mRNA for KIAA1337 protein, partial cds	Homo saplens mRNA for KIAA1337 protein, partial cds	Homo saplens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds	CM-BT043-090299-075 BT043 Homo sapiens cDNA	qx57b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2005417 3	H.saplens ECE-1 gene (exon 17)	hu09f08.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166119 3'	601140485F1 NIH_MGC_9 Hamo saplans cDNA clone IMAGE:3049820 5'	Human glucose transporter (GLUT4) gene, complete cds	Homo saplens Xq pseudoautosomal region; segment 2/2
פונים ווטאם פוני	Top Hit Database Source	EST_HUMAN	F	Z	MT	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	NT	K	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	NT	TN	LN	NT	TN	IN	TN	LN	NT	EST_HUMAN	EST_HUMAN	. TN	EST_HUMAN	EST_HUMAN	TN	NT
	Top Hit Acession No.	BF337599.1	AB007964.1	AB007984.1	AB007934.1	BE392102.1	BE392102.1	BF306541.1~	AU133205.1	AL049801.1	AB029000.1	BE741519.1	BE296387.1	BE867619.1	BE867619.1	Y18000.1	AU134863.1	5032192 NT	4755139 NT	4765139 NT	AF111168.2	Y19208.1	Y19208.1	AB037758.1	AB037758.1	AF155156.2	Al904151.1	Al263294.1	X91937.1	BE222260.1	BE271424.1	M91463.1	AJ271736.1
	Most Similar (Top) Hit BLAST E Value	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120					_	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121			1.0E-121	1.0E-121		1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121		1.0E-121
	Expression Signal	3.11	2	2	1.55	5.02	6.02	4.2	247	0.88	3.18	1.74	17.29	2.46	2.48	1	1.52	1.65	0.98	0.98	0.64	3.96	3.98	1.2	1.2	9.29	0.64	1.18	3.44	68'0	0.56	0.46	1.09
	ORF SEQ ID NO:		34283	34284	34311				35217	35227	35458	36293	36343	36596	36597	25106	25400	25729	26929	26930	27900	28008		28484				29259	29948	30363		32300	
	Exan SEQ ID NO:		21370	21370	21399					22286	22497		23337	Ш			12978	15291	14431	14431	15477	15597		16062					17582				19798
	Probe SEQ ID NO:	8876	8836	8838	9968	5686	8693	9863	9873	9883	10096	10868	10905	11103	11103	76	393	744	1912	1912	2922	3043	3043	3519	3519	3677	3722	4353	5072	5519	5826	6981	7293

Probe	Exon			Most Similar		1	
	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7378	18048		0.81	1.0E-121	AW898086.1	EST HUMAN	RC3-NN0066-270400-011-f02 NN0068 Homo sapiens cDNA
378	18048		0.81	1.0E-121	AW898086.1	EST HUMAN	RC3-NN0066-270400-011-f02 NN0088 Homo seniens cDNA
8	20700		9.0	1.0E-121	11426714 NT	¥.	Homo saplens U5 snRNP-specific protein (220 kD) arthdra of S. careadelas Dayes, (paper)
8283	20700	33592	0.5	1.0E-121	11426714 INT	Į	Homo seplens US snRNP-specific protein (220 kP) arthology of Community, p. 6, (1999)
8589	21024		1.43	1.0E-121	11436217 NT	Į	Homo sablens comma-aminobuly de geld (CABA) A receive of the SACA BAAN
8593	21028		235	1.0E-121	D84122.1	Z.	Homo sepiens DNA for prostacyclin synthese even 8
8283	21028	33830	2.35	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacycijn synthase, exon 8
9836	22338	35286	1.09	1.0E-121	AW583858.1	EST HUMAN	la05g06.yl Human Panoreatio Islats Homo septens cDNA 5' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-QAMMA.
9936	22338	35287	1.09	1.0E-121	AW583858.1	EST HUMAN	ia05g05.yl Human Pancreatic Islats Homo sapiens cDNA 6' similar to TR:O76457 076467 CYTOSOLIC PHOSPHOLIPASE 43-CAMMA
10560	23007	35994	3.33	1.0E-121	11427788	Ŀ	Homo sentens COX11 (wass) homology condenses and sentenses COX11 (wass) homology condenses and sente
10749	23187	36173	.8.75	1.0E-121		Į.	Homo seriens chindren Intranellular Channel A like (C. 1041)
10776	23214	36197	4.42	1.0E-121	N59824.1	EST HUMAN	W/4601 s1 Scares fatal liver enlage 1/161 S Home continue CNA characters
11097	23521	36558	2.53	1.0E-121	AU119320.1	EST HUMAN	AU119320 HEMPA1 Home saniens of DNA close LEMBA1006E20 E1
784	12878	25294	1.81	1.0E-122	6178	Z	Homo saciens T-cell humbhome layesing and metandaric 4 (TANAA) - ENA
뗤	12940	25354	. 2.2	1.0E-122 A	F114488.1	N	Homo saplens intersectin short isoform (TSN) mRNA complete and
372	12960	25379	1.76	1.0E-122	6176	Į	Homo sablens T-cell Ambhoma Invasion and methodesis 4 (TIANA) DNA
g	13459	25908	3.22	1.0E-122 A	F14	¥	Homo sablens infersectin short isoform (TTSN) mPNA Assembles of
1262	13790	26236	11.85	1.0E-122 M	20707.1	<u> </u>	Himan kanadimunodishidin aneella
1691	14220	26700	2.81	1.0E-122	F167706.1	Ę	Homo septem content of tonget content to be under the content of t
1710	14238	26723	2.73	1.0E-122	8424	Į.	Homo sanions objects the Yil Juhe 4 (70) 4344 - 114
1710	14238	26724	2.73	1.0E-122	11418424 NT	Į.	Homo saplane collader the XII shahad (COLIZAL), mixing
1790	14315	26809	4.05	1.0E-122	T	T HUMAN	604497032F1 NIH MGC 70 Home complementally also accessed as
2394	14898	27416	7.08	1.0E-122	T	Т	6018081725F NIH MGC 10 How Squels CUTA GOTE INVESTBEED BY
2394	14898	27417	7.08	1.0E-122	1.0E-122 BF316170.1	Т	601896173F1 NIH MGC 19 Homp seniens con A Jone IMA OE: 4125234 6
4804	17415	29787	4.27	1.0E-122	18		Home engines or the AAA Asset AAAA AAAAAAAAAAAAAAAAAAAAAAA
5088	17598		1.19	1.0E-122	1.0E-122 AW 504645.1	T HI IMAN	III HE RNO all a 23 0 111 4 MID MCC En II
37	17932	30285	16:0	1.0E-122	1668		Homo saplans say comb on midled the 2/00th of Lotte
5828	18408	31075	1.32	1.0E-122	1.0E-122 BE256039.1	T HI IMAN	SOUTH SERVICE OUT AS LOWER SOUTH STATE OF THE STATE OF TH
7137	18408	31075	6.56	1.0E-122		Т	601113567F1 NIH MGC 16 Home soulers ADNA class 188625235
7660	20106	32958	0.54	1.0E-122	1.0E-122 AA868671.1	Т	ak49h06.81 Scares testis NHT Homo seriens cDNA close IMAGE: 44co20.27
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Charles Laborated II Lung	Top Hit Descriptor	2/5803.rf Stratagene NT2 neuronal precursor 837230 Homo sapiens cDNA clone IMAGE:683438 6' similar to TR:0840370 G940370 G940370 1.4 AMINOCYCH ODDODANIE 4 OADDOWN ATT COMP.	216a03.r1 Stratagene NIZ neuronal precuror 837230 Homo saptens cDNA done IMAGE:663436 5' stmilar	Homo saplens lethal cleant let	4932h07.x1 NCI_CGAP_Britzs Homo septems CDNA clone INACes.2013757.3° similar to SW-MTA1 HI INAN O 1993 METACATA SE A COOLATED PROPERTY.	9/32/07 X NO. CGBA Brita Horis septems CDNA clone IMAGE:2013767 3's similar to	ESTABATOR MACE ACCURATE AND TO THE STABBOOK MACE ACCURATE AND THE STABATOR	Home garlens cane for 8430 come 40	OVA BINDON AND A 188 FOR BINDON IN	OV4-BN0090-300300-159-hot BN0000 Local Capital Schild	Homo sepiens phosphoreurities 1 (PMM4) - PNA	Himan keen immineeleh ili menina keen in mini ja mini	Himan phoephoandhamath arthur (2007)	602018058F1 NCI COAP Brief Union major China Indiana III A China III A China III A China III A China III A China III A China III A China III A China III A China III A China III A China III A China III A China II A China	602018058E1 NCI COAP Brief United September Coape IMAGE:41636/0 6	Homo saplans chromosome 24 received UCA CA CA CANA CATE IN A CE:4153870 5	Homo sapiens inner membrane protein milochondria (minetin) (1884) - DNA	Homo seplens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIPBKZB) mRNA, and translated products	Homo saplens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIPBK2B) mRNA, and translated products		Human employers partial mKNA for immunoglobulin kappa chain variable region (IGVK gene), sample GN02	Himan amelycenin (AME) V and 3 and of cas	Himpo amelogonia (AMELY) gene, of the constant amelogonia (AMELY)	Homo seniens RABGlike profeso (1 OCE 200) DNA	Homo sepiens distaminal confide analytemeters (2011-1011)	Homo saplens HBP (7 heparth-binding and FGF-binding protein good control), mKNA	Homo saplens retinaldehyde-binding protein (CRALBP) gene, complete cds
פופ באטון רוט	Top Hit Database Source	EST HUMAN	NAM LIMAN	NT	EST HUMAN	EST LIMAN	EST HIMAN	TN	EST HIMAN	EST HUMAN	LN	L L	TN.	EST HUMAN	EST HIMAN	L L	Ž.	F	Į Į			Ę	Ł	 	17	NT	N
5	Top Hit Acession No.	AA224259.1	AA224259 1	11424216 NT	Al359618.1	Al359818 1	AW965834 1	AB024068.1	BE002805.1	BE002805.1	18187	M20707.1		-	BF345274.1	Ī	3114	4505818 NT	4505818 NT	1388644 4	T			705962	6912617 NT	F149412.1	34219.1
	Most Similar (Top) Hit BLAST E Value	1.0E-122	1.0E-122		1.0E-122		_	_	-		1.0E-122	1.0E-122			-	_	-	1.0E-123	1.0E-123	1 0F-123 /		-	-	1.0E-123	1.0E-123	1.0E-123 A	1.0E-123 L
	Expression Signal	0.48	0.48	1.62	0.83	0.83	2.01	3.25	1.94	1.94	6.9	2.43	0.94	1.47	1.47	8.28	2.42	4.79	4.79	16.1	1.52	1.52	1.62	2.83	0.69	0.58	1.5
	ORF SEQ ID NO:	33763	33764	П	34919	34920	36188	36630	36934	36935		26236	25212	25782	25783	28027	26034	26257	26258	26482	27049	27050	27051		28181	30134	30713
	Exan SEQ ID NO:	20862	20862	21792	21991	21991	23206		23859	23859	23972	13780	12797	13348	13348	13587	13594	13807	13807	14016	14537	14537	14537	14719	15762	17785	18288
	Probe SEQ ID NO:	8448	8448	8360	9568	9568	10768	11138	11501	11501	11651	12608	194	790	780	1039	1048	1271	1271	1484	2021	2021	2021	5209	3210	5284	5704
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Table 4
Single Exon Probes Expressed in Lung

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Probe Exan SEQ ID SEQ ID NO: NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
		1.5	1.0E-123	L34219.1	N	Homo saplens retinaldehyde-binding protein (CRALBP) gene, complete cds
┙	31096	1.72	1.0E-123 B		EST_HUMAN	801591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
6814 19355	32132	2.05	1.0E-123	1.0E-123 AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo saplens cDNA done HEMBA1003591 5'
7424 18929	32760	1.02	1.0E-123	H53198.1	EST HUMAN	YR84e03.r1 Scares fetal liver splean 1NFLS Homo explens cDNA clone IMAGE:202444 5 similar to SP:YAK1 YEAST P14680 PROTEIN KINASE YAK1:
	11 32775	1.45	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
			1.0E-123	U55258.1	NT	Human hBRAVO/Nr-CAM precursor (hBRAVO/Nr-CAM) gene, complete cds
		86'0	1.0E-123	11525833 NT	N N	Homo saplens heparan suffate (glucosamine) 3-0-sulfotransferase 2 (HS3ST2), mRNA
8173 20595		1.43	1.0E-123	11436439 NT	NT	Homo sapiens 2-5 oligoadenylate synthetase 2 (OAS2), mRNA
	33491	1.96	1.0E-123	BE263001.1	EST HUMAN	801152815F1 NIH_MGC 19 Homo sapiens cDNA clone IMAGE:3509162 5
8190 20612	33488	69.0	1.0E-123	11437202 NT	N	Homo sapiens hypothetical protein FLJ20184 (FLJ20184), mRNA
8370 20785	35 33684	0.59	1.0E-123	1.0E-123 N35841.1	EST HUMAN	yx89d11.r1 Soares melanocyte 2NbHM Homo septens cDNA clone IMAGE:288917 6' similar to PIR:S49611 849611 protein kinase PkpA - Phycomyces blakesleearus :
8370 20785	33685	0.50	4 DE-423	125841 4	TOT LINAMI	y88411.r1 Seares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:268917 5' similar to PIR:S49611
L		76.0	1.0E-123	AW371924 1	EST HIMAN	RC4-BT0341-254100-01-0-07 BT0344 Home conjune Children
H	35005	1.58	1.0E-123	Γ	N	Homo sapiens mRNA for KIAA0454 protein, partial cds
9694 22106	35034	38.87	1.0E-123		IN	Oryctolactis cimiculus Naw Zesland white elongation factor 1 sinhs (Rehadio?) mRNA complete add
11354 20595	33479	2.48	1.0E-123	1436439	Ž,	Homo sapiens 2-5'oligoadanylate synthetase 2 (OAS2), mRNA
		5.83	1.0E-123 B	F677292.1	EST HUMAN	602086791F1 NIH MGC 83 Homo saplens cDNA clone IMAGE:4250879 5
		5.83	1.0E-123 B	F677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo saplens cDNA clone IMAGE:4250879 5
		1.17	1.0E-124	4507500 NT	N	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
282 12879	9 25296	1.17	1.0E-124	4507500 NT	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
J		2.36	1.0E-124	1.0E-124 D87675.1.	ZH.	Homo sapiens DNA for amyloid precursor protein, complete cds
503 13077	7 25494	2.74	1.0E-124	1.0E-124 AL163246.2	M	Homo sapiens chromosome 21 segment HS21C046
711 13272	25691	2.68	1.0E-124	1.0E-124 AA397561.1	EST_HUMAN	z81b04.r1 Stratagene schizo brein S11 Homo sepiens cDNA clone IMAGE:728719 6' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG RETROVIRAL ELEMENT:
711 13272	25692	2.68	1.0E-124		EST HUMAN	281b04.r1 Strategene schizo brein S11 Homo sepiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POI =REVERSE TRANSCRIPTASE HOMOI OG IRETROVIDAL ELEMENTI.
		2.98	1.0E-124		NT.	Human putative ribosomal protein S1 mRNA
831 13388	18 25827	1.51	1.0E-124	4507500 NT	N	Homo saptens T-cell (ymphoma invasion and metastasis 1 (TIAM1) mRNA
		3.6	1.0E-124	7705446 NT	Z	Homo sapiens hypothetical protein (HSPC068), mRNA
1378 13913	3 26368	9.43	1.0E-124	274892.1	Į.	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds

Table 4 Single Exon Probes Expressed in Lung

-		T	T	Т	Т	Т	т	Т	T	Т	Т	Т	Т	Т	Т	T	Т	T	Т	Т	Т	Т	Т	Т	T	T:	Т	Т	Т	Τ	Ť	Ť
יוויסטים דילנו מספס דילנו מספס וון במוול	Top Hit Descriptor	Homo sapiens glucose trensporter 3 gene, exans 9, 10, and complete cds	Homo sepiens mRNA for nucleolar RNA-helicase (noH61 gans)	801491715F1 NIH MGC 69 Homo seglens cDNA clone IMAGE:3893954 5	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJB/BIR1) gene exon	Homo saplens ATP-sensitive Inwardly rectifying K-channel subunit (KCNJ@BIR1) sens. exen	Homo saplens T-cell fymphoma Invasion and metastasis 1 (TIAM1) mRNA	Homo sepiens glutamate receptor, tonotropic, kainate 1 (GRIK1) mRNA	hk39c07.x1 NCI CGAP Lu24 Homo septens cDNA clane IMAGE:3176788 3'	Homo saplens gene for B120, exon 11	Human fibronectin gene extra type III repeat (EDII), extn x+1	EST375463 MAGE resequences, MAGH Homo sepiens cDNA	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA	802124644F1 NIH MGC_66 Homo septens cDNA clone IMAGE:4281635 67	AV711263 Cu Homo saplens cDNA clone QuAADF07 5'	Homo sapiens ubjauliin specifio protesse 8 X chromosome (Drosonthile fet ferets releted) (11 (CDOX) - MDNA	M.musculus mRNA for hoxe3 gene	800943771F1 NIH MGC 8 Home seriens CONA clone IMAGE-poseses 5	800943771F1 NIH MGC 8 Homo sapiens cDNA clone IMAGE 2266585 5	ac08h05.s1 Stratagene HeLa cell s3 937216 Homo saplens cDNA clone IMAGE 855897.31	Human Ig germline H-chain D-region genes, partial cds	Human Ig germline H-chain D-region genes, partial cds	Homo sapiens ribosomal protein L5 (RPLS) mRNA	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:095162 095162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE	hg94e09.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2853240 3' similar to TR:O95162 O95187 PFROXISOMAL SHORT-CHAIN ALCOHOL DELYCOCENASE	AV645633 GL C Home satisfact china GL CACEDA 3	AV645633 GLC Homo sapiens cDNA clone GLCACED4 3'	wi93f02x1 NCI CGAP KId12 Hamp spolens cDNA done IMAGE 2400891 3'	WIS3TD2 x1 NCI_CGAP_KId12 Homo seplens cDNA clone IMAGE:2400891 3'	UFHF-BNO-ekz-b-04-0-Uir1 NIH MGC 50 Hamo septens cDNA clone IMAGE:3078846 5	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
	Top Hit Database Source	K	K	EST HUMAN	¥	Ę	NT.	Ę	EST HUMAN	NT	Į.	EST HUMAN	Ę	Ę	EST HUMAN	EST_HUMAN	Į Į	Z	EST HUMAN	EST HUMAN	EST HUMAN	Į.	Ę	TN	EST HUMAN	FST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	E
	Top Hit Acession No.	AF274892.1	4J131712.1	3E879524.1	S78684.1	578684.1	4507500 NT	4504116 NT	3E220437.1	AB024069.1	M18178.1 ·	4W963390.1	8922337 NT	4506786 NT	3F696135.1	4V711263.1	11420654 NT	11717.1	3E271295.1			M37277.1	VI37277.1	4506654 NT	4W612108.1	4W612106.1	4V645633.1	4V645633.1	AI767133.1	41767133.1	AW 503755.1	J94776.1
	Most Similar (Top) Hit BLAST E Value	1.0E-124 /	1.0E-124	1.0E-124		***		1.0E-124	1.0E-124	1.0E-124	1.0E-124	_	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	Ľ	_	=	1.0E-124 /	1.0E-124	ł	1.0E-124	1.0E-124	1.0E-124	13	1.0E-124/			-	1.0E-124
	Expression Signal	9.43	2.2	2.14	0.71	0.71	0.95	1.27	0.71	1.66	1.26	0.8	13.4	96.0	69.69	0.82	0.83	3.08	0.97	76.0	0.82	0.42	0.42	9.67	1.48	1.48	4.5	4.5	8.43	8.43	1.51	1.87
	ORF SEQ ID NO:	26369		27011	28431	28432	28849			29690			30498			31778	32082	32770	32871	32872				34159	34322	34323	35028	35029				36250
	Exan SEQ ID NO:	13913	14318	14502	16010	16010	16443		17309			17732	18139	18519	18745	19038	19315	19937	20027	20027	20498	20855	20855	21253	21408	21408	22100	22100	22174	22174	22348	23264
	Probe SEQ ID NO:	1378	1791	1986	3466	3466	3908	4080	4795	4797	6016	5230	5548	5941	6177	6483	6772	7433	7577	7677	8067	8 74 74	844	8819	8976	8975	8898	8898	9771	9771	8946	10828

Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11094	23518	36554	89.8	1.0E-124	AW665663.1	EST_HUMAN	hj05c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2980906 3'
11226	22878	35854	4.26	1.0E-124	A1446455.1	EST_HUMAN	t19e03.x1 NCI_CGAP_Gas4 Homo saplens cDNA clone IMAGE:2141980 3' similar to TR:O31682 O31662 YKRS PROTEIN.;
11226	22878	35855	4.26	1.0E-124	A1446455.1	EST_HUMAN	t19903.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:031662 031662 YKRS PROTEIN:
11731	13272	25691	4.3	1.0E-124	AA397551.1	EST HUMAN	z81b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA cione IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT):
11731	13272	25692	4.3	1.0E-124	AA397551.1	EST HUMAN	281b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA cione IMAGE:728719 5' similar to TR:G300482 G300482 POL≃REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT)
12196	24315	30914	4.1	1.0E-124	AB029016.1	IN	Homo sapiens mRNA for KIAA1083 protein, partial cds
12486			1.81	1.0E-124	11417862 NT	FX	Homo sapiens calcheurin binding protein 1 (KIAA0330), mRNA
12486		30592	1.81	1.0E-124		K	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA
333			7.08		B032998.1	Z	Homo saplens mRNA for KIAA1172 protein, partial cds
443			6.24		E743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA done IMAGE:3926685 5
983			16.54	1.0É-125	AI110659.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
883			16.54		A1110658.1	EST_HUMAN	HA0088 Human fetal liver cDNA library Homo sapiens cDNA
748	13308	25733	1.87	1.0E-125	AF284750.1	LN TN	Homo sapiens ALR-like protein mRNA, partial cds
883	13438	25886	2.32	1.0E-125	AA042813.1	EST HUMAN	zk53c07.s1 Soares, pregnant, uterus, NbHPU Homo sapiens cDNA clone INAGE:486540 3' similar to gb:X65857, cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN):
1025			1.24	1.0E-125	AL163210.2	FZ	Homo sapiens chromosome 21 segment HS21C010
1181			1.63	1.0E-125	7662279 NT	LZ.	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
1672	_1		2.27	1.0E-125	T861867 NT	NT	Hamo sapiens KIAA0022 gene product (KIAA0022), mRNA
1787	_1		5.36	1.0E-125 A	F015450.1	IN	Homo sapiens Usurpin-alpha mRNA, complete cds
1787	14312	26806	6.36	1.0E-125	AF015450.1	TN	Homo sapiens Usurpin-elpha mRNA, complete cds
2411		27433	3.74	1.0E-125	AA042813.1	EST HUMAN	zk33c07.s1 Soares, pregnant, uterus, NbHPU Homo saptens cDNA clone IMAGE-486340 3' similar to gb:X65857, cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN):
2520	۱		2.58		4504696 NT	5	Homo sapiens Inhibín, alpha (INHA) mRNA
2520	15020	27536	2.58	1.0E-125	4504698 NT	F	Homo sapiens Inhibin, alpha (INHA) mRNA
2525	15024	27540	17.07	1.0E-125	AI732966.1	EST_HUMAN	oh64d02.x5 NCI_CGAP_Kid5 Homo saplens cDNA clone IMAGE:1471779.3
3864			1.01	1.0E-125	1.0E-125 AA042813.1	EST HUMAN	zk53o07.s1 Soarse_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
4586			2.71	1.0E-125	11425114 NT	NT.	Homo saplens zinc finger protein ZNF287 (ZNF287), mRNA
4586			2.71	1.0E-125		N-	Homo saplens zinc finger protein ZNF287 (ZNF287), mRNA
4860	17176	29556	0.98	1.0E-126B	E315412.1	EST_HUMAN	601141152F1 NIH MGC 9 Homo sapiens cDNA clone IMAGE:3140786 5

Table 4
Single Exon Probes Expressed in Lung

			***	מון ווווסעיין פוא	Cingra Lybressed III Lung
ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
31299		0.56 1.0E-125	BF683645.1	EST HUMAN	602139874F1 NIH_MGC_46 Hamo sapiens aDNA clone IMAGE:4300770 6
31433		1.64 1.0E-125	11436448 NT	IN	Homo sepiens KIAA0985 protein (KIAA0985), mRNA
4		1.22 1.0E-125	BE175169.1	EST_HUMAN	QV2-HT0577-010500-165-b06,HT0577 Homo sepiens cDNA
 	31502 3.	3.46 1.0E-125	BE892660.1	EST_HUMAN	601433472F1 NIH_MGC_72 Hamo saplens oDNA clone IMAGE:3918962 5'
-	31554 0.	0.82 1.0E-125	A1679904.1	EST HUMAN	tu67c07x1 NCI_OGAP_Gas4 Homo septens cDNA clone IMAGE:2256108 3' sImilar to WP:C45G9.2 CE01854:
			BE736055.1	EST HUMAN	601305670F1 NIH MGC 39 Homo saplens cDNA clone IMAGE:3640097 6'
	32251 5.		BE562526.1	EST_HUMAN	601335828F1 NIH MGC 44 Hamo sapiens cDNA clane IMAGE:3689790 5'
	32252 . 5.	-5.54 1.0E-125	BE562526.1	EST HUMAN	601335828F1 NIH MGC 44 Homo saplens cDNA clone IMAGE:3689790 5'
		4.53 1.0E-125	X03427.1	NT	Homo sapiens IGF-II gene, exon 5
		4.53 1.0E-125	X03427.1	NT	Homo sapiens iGF-II gene, exon 5
mi		0.95 1.0E-125	BE278823.1	EST HUMAN	601159076F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3505603 5
ďά		0.42 1.0E-126	11425572		Homo saplens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
ική	33717 0.	0.48 1.0E-125	BE515100.1	EST HUMAN	601236183F1 NIH_MGC_44 Hamo septens cDNA clone IMAGE:3608084 5'
69	34376 1.	1.16 1.0E-125	U90288.1	F	Human chromosome 10 duplicated adrendeukodystrophy (ALD) cene segment containing excess 8-10
i e	34376 1.	1.16 1.0E-125	U90288.1	LN LN	Human chromosome 10 duniticated adrendeukodystropiv (ALD) mena sement containinn aways 2-10
ļψ.	34767 11.64	64 1.0E-125	BE181640.1	EST HUMAN	QV1-HT0638-070500-191-d12 HT0638 Homo saxlens cDNA
I (C)	34768 11.64		BE181640.1	EST_HUMAN	QV1-HT0638-070500-191-d12 HT0638 Homo septiens cDNA
60		13 1.0E-125	AI565998.1	EST HUMAN	INS2B03.X1 NCI_CGAP_KId11 Homo sapiens cDNA clone IMAGE:2171981 3' similar to TR:Q14089 Q14089 HYPOTHETICAL PROTEIN:
(0)	35903 3.	3.99 1.0E-125	AF043458.1	LZ	Homo sapiens I-REL gene, exon 5
6	35985	1.65 1.0E-125	AW131202.1	EST_HUMAN	X75902.X1 NCI_CGAP_Gas4 Homo saptens CDNA clone IMAGE:2822363 3' similar to TR.Q13284 Q13284 LAMBDA/10TA PROTEIN KINASE C-INTERACTING PROTEIN, [1];
က်	35986	1.85 1.0E-125	AW131202.1	EST HUMAN	XBB/02X1 NCL_CGAP_Ges4 Home septens oDNA clone IMAGE:2622363 3' similar to TR:Q13284 Q13284 LAMBDA/IOTA PROTEIN KINASE C-INTERACTING PROTEIN 111
(r)	36058 1.1		11425570	Į.	Homo saciens ryanodine receptor 1 (skeletal) (RYR1), mRNA
e	36311 36.18		AL040655.1	EST HUMAN	DKFZp434N2414_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434N2414 6
(Ö			AB014567.1	П	Homo sapiens mRNA for KIAA0687 protein, partial cds
m		2.48 1.0E-125	7669505 NT	IN.	Homo saplens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
امر	36516 10.99		AF026029.1	N	Homo sapiens poly(A) binding protein II (PABP2) gene, camplete cds
اکم		1.0E-125	AW812899.1		RC3-ST0186-250200-018-c11 ST0186 Homo sapiens cDNA
	36670 4.	4.48 1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0569-020200-076-g09 BT0569 Hamo sapiens cDNA

		τ-	_	1.	т-	1		_	_	_	_	_	_	т	_	_	т-	_		7	_	Ť	Τ	т	т	_	T	τ-	т-	т-	_
	Top Hit Descriptor	QV3-BT0569-020200-075-509 BT0569 Homo saplens cDNA	Homo sapiens CDC-like kinase (CLK) mRNA	Human laminin B1 chain gene, exon 20	H. sepiens gene for alpha1-entichymotrypsin, exon 3	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA	Homo sapiens RAN binding protein 2 (RANBP2), mRNA	zo72c03.r1 Stratagene pancreas (#637208) Homo sapiens cDNA clone IMAGE:592420 5	zo72c03.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'	UI-H-BI4-aoe-b-05-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084608 3'	UI-H-BI4-ace-b-05-0-UI.s1 NCI_CGAP_Sub8 Homo sepiens cDNA clone IMAGE;3084608'3'	H.sapiens DNA for liver cytochrome b5 pseudogene	Homo sapiens death receptor 6 (DR6), mRNA	Homo sepiens collagen type XI alpha-1 (COL11A1) gene, exon 63	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63	yx78c08.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:267850 5	ya52b12.s1 Soares fetal liver splean 1NFLS Homo sapiens cDNA clone IMAGE:68527 3'	2x69c03.rl Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:796444 5' similar to TR:G1145880 G1145880 TITIN	Homo saplens mRNA for KIAA1626 protein, partial cds	Homo sepiens mRNA for KIAA1525 protein, partial cds	Homo saplens ciliary dyneth heavy chain 9 (DNAH9) mRNA, complete cds	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	AU136463 PLACE1 Homo sepiens cDNA dane PLACE1004325 5'	wf08f01.x1 Soares_NFL_T_GBC_S1 Homo septens cDNA clone IMAGE:2350009 3' sjmilar to SW:MPP2_HUMAN Q14168 MAGUK P65 SUBFAMILY MEMBER 2;	Human mRNA for ankyrin (variant 2.1)	ne74b12.s1 NC_CGAP_Ew1 Homo saplens cDNA done IMAGE:909983 similar to SW:TSG6_HUMAN P98068 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR:	Human macrophage mannose receptor (MRC1) gene, exon 5	602139138F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4298240 5'	601149404F1 NIH_MGC_19 Hamo saplens cDNA clone IMAGE:3502129 5'	Homo saplens LDL receptor member LR3 mRNA, complete cds
שום באחוו ביות	Top Hit Database Source	EST_HUMAN	Z	F	Ę	Ę	Į.	Z	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	Z	N-	N.	N F	EST HUMAN	EST HUMAN	FST HIMAN	Į.	N	N	N-	EST_HUMAN	EST_HUMAN	NT	EST HUMAN	F	EST_HUMAN	EST_HUMAN	TN
	Top Hit Acessian No.	BE074267.1	4758007 NT	M61936.1	X68735.1	8923056 NT	8923056 NT	6382078 NT	AA160709.1	AA160709.1	BF510408.1	BF510408.1	X53941.1	7857038 NT	AF101108.1	AF101108.1	N34078.1	T66998.1	AA460075.1	AB040958.1	AB040958.1	AF257737.1	AF257737.1	AU136463.1	A1806483.1	X16609.1	AA483368.1	M93196.1	BF683175.1	BE261660.1	AF077820.1
	Most Similar (Top) Hit BLAST E Vatue	1.0E-125	1.0E-126	1.0E-128	1.0E-126	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-126	1.0E-126	1.0E-126	1.0E-126		1.0E-126		1.0E-126	1.0E-126	1.0E-126	_	_	1.0E-126	1.0E-126	1.0E-126	1.0E-126	1.0E-128	1.0E-126	1.0E-126	1.0E-126		1.0E-126
	Expression Signal	4.48	4.27	1.45	4.28	2.23	2.23	3.32	8.17	8.17	0.78	0.76	76.0	2.64	1.2	1.2	263	0.72	4.11	3.79	3.79	1.08	1.06	9.0	0.61	2.57	1.09	1.74	2.16	6.48	3.62
	ORF SEQ ID NO:	36671	25790	25793	25937				27999		28001		28576		29734	29735	29774	31234	31849		31917			33550	33617		34100				36879
	Exon SEQ ID NO:	23623	13354	13357	13495	14748			15588	15588						17351	17403	18549	19105		19165			20660	20724	21060	21198	23022		23636	
	Probe SEQ ID NO:	11257	796	789	942	2239	2239	2522	3033	3033	3034	3034	3627	3655	4839	4839	4891	5973	6553	6615	6615	8004	8004	8243	8309	8625	8764	10575	10840	11270	11458

										spo				RNA	RNA			-	T												Î		
Single Exon Flobes Expressed in Lung	Тор Hit Descriptor	H.saplans TCF11 gene, exon 3-8	Homo saplens Integrin, beta 8 (ITGB8) mRNA	Homo saplens immunoglobulin superfamily, member 3 (IGSF3), mRNA	Homo saplens reelin (RELN) mRNA	Homo sapiens Pendred syndrome (PDS), mRNA	Homo sapiens Pendred syndrome (PDS), mRNA	802151232F1 NIH_MGC_81 Homo saplens cDNA done IMAGE:4292575 5	QV3-BN0046-150300-121-h11 BN0046 Homo sepiens cDNA	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spilced, complete ods	Homo sapiens secretory cathway component Sec318-1 mRNA, efternatively snijcer, commiena crts	qm94h09.x1 NCI. CGAP Lu5 Homo sepiens cDNA clone IMAGE:1896449.31	Homo sapiens Chediak-Higashi syndrome 1 (CHS1). mRNA	Homo sepiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sepiens) (LOC83184). mRNA	Homo saplens similar to heat shock 70kD protein 9B (mortalin-2) (H. saplens) (LOC63184), mRNA	601434784F1 NIH MGC 72 Homo saplens cDNA clone IMAGE:3919917 6	601434784F1 NIH_MGC_72 Homo sepiens cDNA clone IMAGE:3918917 5'	Homo sapiens mRNA for caseln kinase I epsilon, complete cds	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens gene for AF-8, complete cds	601278127F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3618822 5	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo sapiens chondratin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Human FAU1P pseudogene, trinucleotide repeat regions	Human FAU1P pseudogene, trinucleotide repeat regions	Homo saplens ribosomal protein S2 (RPS2) mRNA	Homo saplens mRNA for KIAA1247 protein, partial cds	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA	H.saplens gene for inter-alpha-trypsin inhibitor heavy chain H1. exon 12	Homo saplens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA	7q86b10x1 NCI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE: 3'	601503846F1 NIH MGC_71 Homo septens cDNA clone IMAGE:3905784 5	
שופ באטנו היוטנ	Top Hit Database Source	F	F	F.	2	Z	F	EST HUMAN	EST HUMAN	TN	IN	EST HUMAN	7	Z E	Z	EST HUMAN	EST_HUMAN	Z	Z.	Ł	EST_HUMAN	IN	님	NT	Į,	۲	LN	E	LN PN	NT.	EST_HUMAN ·	EST HUMAN	
Sillo Sillo	Top Hit Acessian No.	XB4060.1	4504778 NT	11421595 NT	4826977 NT	11421914 NT	11421914 NT	BF671355.1	AW 996292.1	AF274863.1	AF274863.1	AI298932.1	11427235 NT	11417339 NT	11417339 NT	BE895415.1	BE895415.1	AB024597.1		AB011399.1	BE385617.1	4758081 NT	4758081 NT	U02523.1	U02523.1	4506718 NT	AB033073.1	11426673 NT	X69539.1	11420965 NT	BF224345.1		
	Most Similar (Top) Hit BLAST E Value	-	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	_		1.0E-127		1.0E-128	1.0E-128	1.0E-128		1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	
	Expression Signal	2.41	5.93	+:+	0.76	1.38	1.38	99.0	0.67	4.45	4.45	0.93	1.65	8.05	8.05	4.3	4.3	2.86	2.86	2.2	1.84	1.34	1.34	19.31	19.31	24.89	1.33	6.34	0.68	1.29	6.71	0.5	
	ORF SEQ ID NO:	31768	31948	32347	32496	33857	33658	33678	33681	35131	35132	35289	35633	36378	36377	36796	36797	25195	25196	30944	25469	26164	26165	27019	27020	27151	28336	29608	31060	32085	32666	33219	
	Exan SEQ ID NO:		19197	18560	19698			20778	20781	22194	22194	22350	22670					_]	12780	24304	Л	_1	_ }						_	19300	٠ }		
	Probe SEQ ID NO:	6476	6849	7024	7494	8346	8346	8363	8366	9791	9791	8948	10269	10936	10936	11376	11376	11965	11965	12184	477	1183	138	1895	1895	2115	3372	4708	5809	6757	7340	7912	

							a.
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8260			0.64	1.0E-128	BF529931.1	EST HUMAN	602042322F1 NCI CGAP Brn67 Home sapiens china close Macce 1470069 F
8260				1.0E-128 BF	BF529931.1	EST HUMAN	602042322F1 NCI CGAP Brigh Homo sambles chuld Alexa IAAAE: 470000 E1
8367			99.0	1.0E-128	11545923		Homo sepiens gutative ABC transporter (WHITE?) mBNA
10494	22944	35925	2.74	1.0E-128	11425254	LN LN	Homo saplens glutamate receptor, longitonic, N-methyl D-snartate 20 (CRIN2D)
10504	22953	35934	3.79	1.0E-128	1.0E-128 AA926959 1	EST HIMAN	om68h08.s1 NCI_CGAP_GC4 Homo saplens oDNA clone IMAGE:1652383 3' similar to gb;X54941 CYCLIN-
10579	23026	38010	2.24	1.0E-128	1.0E-128 AJ252060.1	L	Homo saniens mRNA for TRABID models (TRABID)
10634		36060	2.28	1.0E-128	BE384476.1	EST HUMAN	601277898F1 NIH MGC 20 Home emilian ANA Albert 114 AF-20457778
10748			2.64	1.0E-128	1.0E-128 BE887554.1	T	601511912F1 NIH MGC 71 Home septem CDNA clare INACC-3013731 F1
11827			6.3	1.0E-128	AW955290.1	Т	EST367360 MAGE basenireness MAGO Homo sealess child
128			1.56	1.0E-129	Γ	Т	Insulin-like growth factor blading probain. The men placests. Commis 4040 -4
430			1.27	1.0E-129	Π	Į.	Insulin-like growth factor binding protein 2 pureas processes. Constitution of the con
1716	14244		2.5	1.0E-129	1.0E-129 AL096880.1	Į.	Novel human mRNA containing Zinc finger C2H2 has domaine
1720	14248	26731	132	1 OE-120 AE			Homo saplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
	1_		7	1.00	240700.1	Z	genes, complete cds
1720	14248	26732	1.32	1.0E-129 A	-240786.1	Ę	Homo septens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes. complete ods
1818	14340	28835	2.48	1.0E-129	11418522	TN	Homo saniens find finder profein 78 (managed in 1-4) (721 F20)
2737	15227	27738	2.35	1.0E-129	45056R2 NT	Ę	forms embran aldeled decinal and the second mesus (CNF/B), mKNA
2737	15227	27739	2.35	1.0E-129	4505682 NT		Homo sanians related derived grown receptor, beta polypeptide (PDGFRB) mRNA
3089	15643		1.34	1.0E-129		/ISSPROT	ZINC FINGER PROTEIN HZEAD
3080	15643	28052	1.34	1.0E-129 Q14585		1	ZINO FINGER PROTEIN HZF10
388	15643	28063	1,34	1.0E-129		Ĺ	ZING FINGER PROTEIN HZF10
8	16707	28097	2.2	1.0E-129		Г	Homo sapiens mRNA for KIAA1459 protein, partial cds
4297	16822	29206	1.99	1.0E-129	1.0E-129 AW755254.1	EST HIMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5
4297	16822	20000	8	100	7	1	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5
6333	18958	34600	3 2	105 400	1	HOMAN	Cardionnyopathy associated gene 5
8878	40/46	25,55	DA:+	1.05-128			Homo saplens KVLQT1 gene
7652	10700	32520	0.70	1.0E-129	1	HUMAN	601513861F1 NIH_MGC_71 Home saplens cDNA clone IMAGE:3915350 5/
7207	19/30	32338	0.59	1.0E-129			601449740F1 NIH_MGC_65 Hamo sapiens cDNA clane IMAGE:3853688 5
7587	20047	32084	0.58	1.01-129	1	T HUMAN	601449740F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:3853688 5'
782	10000	10076	3.02	1.05-129	1.0E-129 AJ006345.1		Homo sapiens KVLQT1 gene
3	70007	32304	7.96	1.0E-129	11420850 NT		Homo saplens similar to ribosomal protein S28 (H. saplens) (LOC63694), mRNA

	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8035	20467	33340	0.87	_	AF041056.1	IN	Homo saplens WSCR4 gene, exons 3 and 4
8036	20467	33341	0.87	ï	AF041058.1	F	Homo sapiens WSCR4 gene, exons 3 and 4
8864	21298		3.82	1.0E-129	AB014534.1	E	Homo saplens mRNA for KIAA0634 protein, partial cds
10089	22500	35462	1.28	1.0E-129	11437282 NT	¥	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10099	22500	35463	1.28	1.0E-129	11437282 NT	¥	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10994	23423	36440	4.08	1.0E-129	AA625526.1	EST_HUMAN	af72/07.rf Soares_NhHMPu_S1 Homo septens cDNA clone IMAGE:1047589 61
11088	20081	32934	19.88	1.0E-129	11420850 NT	Į.	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63694), mRNA
11814	24071		3.26	1 0E-129	H83155 1	FST HIMAN	7949005.11 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:189112 6' similar to SP BARAFO RARAFO HP. SE-HIRERNATION BEI ATED BROTEIN TAMARS ASIATION IS A SIAN
12227	24338		1.87	-	-	Ţ	DKFZ0762K171 r1 762 (swawm: hmel2) Homo sapieris cDNA clane DKFZ6782K171 s ²
73	12697	25110	0.94	-	05530		Homo sapiens hypothetical protein (HSPC242), mRNA
1201	13742	26186	1.67	1.0E-130	AB037835.1	ĮŅ.	Homo saplens mRNA for KIAA1414 protein, partial cds
1688	14197	26671	20.44	=	BE275192.1	EST HUMAN	601121895F1 NIH MGC 20 Hamo sapiens cDNA clone IMAGE:3346366 6'
1686	14197	26672	20.44	1.0E-130	BE275192.1	EST HUMAN	601121895F1 NIH_MGC_20 Homo sepiens cDNA clone IMAGE:3346368 5'
1927	14448		1.53	1.0E-130		- LV	Human gene for catalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13
2729	15210		4.84	_		Ŋ	Homo saplens RET finger protein-like 1 antisense transcript, partial
2833	15389	27801	1.39		BE564219.1		601343016F1 NIH_MGC_63 Homo saplens cDNA clone IMAGE:3885468 51
2833	15389	27802	1.39		BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Hamo saplens cDNA clone IMAGE:3685468 5'
3568	16170	28525	1.25				Homo saplens retinal dehydrogenase hamolog isoform-1 (RDH) mRNA, complete cds
3768	15389	27801	6.69	_	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:3685468 6
3768	15389	27802	6.69	1	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685468 5
3848	16484	28893	1.82		AW503580.1	EST_HUMAN	ULHF-BN0-aky-06-0-ULT NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078731 5
4087	16618	29006	0.89			NT.	Human T-cell receptor (V alpha 22.1, J alpha RPMI4265-variant, C alpha 1) mRNA
4274	17091	29478	9.57	-		EST_HUMAN	CM4-CN0045-180200-611-f02 CN0045 Homo saplens cDNA
6234	17736	30108	1.35		AW363299.1	EST_HUMAN	RC0-CT0318-201199-031-a11 CT0318 Homo saplens cDNA
5234	17738	30107	1.35	_	AW363299.1	EST_HUMAN	RC0-CT0318-201199-031-a11 CT0318 Homo saplens cDNA
7108	19639	32434	0.66	•	X57825.1	LN IN	Human germline immunoglobulin lambda light chain pseudogene (VII.1)
7212	19824	32638	0.97	-		EST_HUMAN	CMD-CN0046-170200-225-g03 CN0045 Homo sapiens cDNA
. 7212	19824	32639	26.0	1.0E-130	AW843875.1	EST_HUMAN	CMO-CN0045-170200-225-g03 CN0045 Homo saplens cDNA
7228	19840	32857	0.73	1.0E-130	11425446 NT	TN	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7704	20149	33008	2.02	1.0E-130	11416777 NT		Homo saplens solute carrier family 6 (neurotransmitter transporter. L-proline). member 7 (SI C6A7). mRNA
7820	20261	33121	0.62	1.0E-130	AF257737.1		Homo saplens cillary dynetn heavy chain 9 (DNAH9) mRNA, complete cds
7820	20261	33122	0.62	1.0E-130	AF257737.1	NT	Homo saplens cillary dynein heavy chain 9 (DNAH9) mRNA, complete cds

1		Τ	T	T	Τ	Т	T	L	Т	Ť	Т	Т	T	Τ	Τ	T	Τ	Τ	Τ	Τ	Т	Т	Γ	Т	Т	T	Т	Т	T	Ė
B. B. B. B. B. B. B. B. B. B. B. B. B. B	Top Hit Descriptor	Homo sapiens actin, beta (ACTB) mRNA	Human polynomeotic 1 homolog (HPH1) mRNA, partial cds	HA1347 Human fetal liver cDNA library Homo sapiens cDNA	Homo saplens mRNA for KIAA1363 protein, pertial cds	H.saplens nox1 gene (exon 2)	(\$38b05.x1 NCI_CGAP_U4 Homo septens cDNA clone IMAGE:2230833 3' similer to TR:Q89551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.;	1838-05.X1 NCI. CGAP. U14 Homo sapiens cDNA clone IMAGE: 2230833 3' similar to TR: Q99561 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.:	lyO1h09.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:270017 6	yy01h09.r1 Soares melanocyte 2NbHM Homo sapiens cONA clone IMAGE:270017 6	Homo sapiens neuropilin 2 (NRP2) mRNA	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA	Home sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA	Homo septens IgG Fo binding protein (FC(GAMMA)BP) mRNA	ya83g04.r2 Stratagene fetal spleen (#637205) Homo sapiens cDNA clone IMAGE:68310 5'	ya83g04.r2 Stratagene fetal spleen (#637205) Homo sapiens cDNA clone IMAGE:68310 5	Homo saplens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA	601460375F1 NIH_MGC_88 Homo saplans cDNA clone IMAGE:3863803 6'	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529884 5'	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'	2862b05.1 Soares fetal heart NbHH19W Hamo septens cDNA clone IMAGE:345201 6' similar to ab-X16282 cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN):	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA	QV3-HT0457-140200-086-d04 HT0457 Homo sapiens cDNA	Homo sapiens zinc finger protein mRNA, complete cds	Homo saplens chromosome 21 segment HS21C002	Homo sapiens chromosome 21 segment HS21C002	bb24e12.y1 NIH_MGC_14 Homo sepiens cDNA clone INAGE:2983854 5' similar to WP:Y57A10A.Z CE22631;	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2883854 6' similar to WP:Y57A10A.Z
	Top Hit Database Source	FN	N	EST_HUMAN	NT	NT	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N	LN	Į.	N-	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	N	NT	EST_HUMAN	EST HUMAN	EST. HUMAN	EST HUMAN	EST_HUMAN	FN	TN	TN	EST_HUMAN	
	Top Hit Acession No.	5016088 NT	0.0E+00 U89277.1			0.0E+00 X91213.1	0.0E+00 AI623701.1	623701.1			505458	4505938 NT	4505938 NT	4503680 NT	56945.1	56945.1	4444	0.0E+00 BF036881.1	4444			0.0E+00 BE295973.1		Γ	0.0E+00 BE162832.1				0.0E+00 BE018970.1	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00 AI	0.0E+00)	0.0E+00	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00 N36040.1				0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF	0.0E+00	0.0E+00	0.00+000	0.0E+00	0.0E+00	0.0E+00,	0.0E+00,	0.0E+00	0.0E+00	
	Expression Signal	44.65	28.51	322	1.41	0.83	0.96	1.28	1.64	1.64	2.11	4.28	4.28	1.15	1.05	1.05	14.16	1.87	42.85	0.92	0.87	0.7	2.64	0.59	0.59	1.27	16.54	16.54	5.09	-
	ORF SEQ ID NO:			25134			25145	25145	25148			25160				25169		25182		25185		25186	25187	25188			25193		25201	10000
	Exan SEQ ID NO:	12711	12714	12721	12722	12725	12732	12732	15253	15253	12735	12741	12741	12992	12749	12749	12762	12766	12768	12771	12773	12773	12774	12775	12775	12776	12779	12779	12787	
	Probe SEQ ID NO:	94	26	104	105	111	120	121	122	122	125	135	135	<u>\$</u>	145	145	167	161	163	188	\$	<u>\$</u>	170	171	171	172	175	175	185	101

SEQ 10 NO: 1990 1990 1990 1990 1990 1990 1990 199	SEO ID NO: 12702 12702 12703 10703 1	ORF SEO ID NO: 25205 25207 25208 252	Expression Signal 2.93 2.93 2.53 103.51 4.27 4.27 4.22 4.22 4.22 4.22 4.22 4.22	Most Similar (Top) Hit T BLAST E Value Value 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 A 0.0E+00 B 0	Top Hit Acess No. No. AB018327.1 AB018327.1 AB018327.1 AB018327.1 AF273045.1 AF273045.1 AF167174.1 AF195658.1 AF195658.1 AF195658.1 AF195658.1 AF195658.1 AF195658.1 AF195658.1 AF195658.1 AF195658.1 AF195658.1 AF195658.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1 AB018284.1	Top Hit Database Source NT NT NT NT NT NT NT NT NT NT NT NT NT	Top Hit Describtor Top Hit Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin, partial cds NIT Homo septens mRNA for KIAA0784 probin mRNA, complete cds NIT Homo septens mRNA for KIAA0787 probin partial cds NIT Homo septens mRNA for KIAA0787 probin, partial cds NIT Homo septens mRNA for KIAA0787 probin, partial cds NIT Homo septens mRNA for KIAA0787 probin, partial cds NIT Homo septens mRNA for KIAA0787 probin, partial cds NIT Homo septens mRNA for KIAA0787 probin, partial cds NIT Homo septens mRNA for KIAA0787 probin, partial cds NIT Homo septens mRNA for KIAA0787 probin, partial cds NIT Homo septens mRNA for KIAA078 probin, partial cds NIT Homo septens mRNA for KIAA078 probin, partial cds NIT Homo septens mRNA for KIAA078 probin, partial cds NIT Homo septens mRNA for KIAA078 probin, partial cds NIT Homo septens mRNA for KIAA078 probin, partial cds NIT Homo septens mRNA for KIAA078 probin, Y-ancoded-like (Tspyl), mRNA EST_HUMAN TCGAP-TE4468 Pediatric pro-B cell acutie lymphoblastic leukemia Baylor-HGSC project-TCGA Homo septens TCGAP-TE4468 Pediatric pro-B cell acutie lymphoblastic leukemia Baylor-HGSC project-TCGA Homo septens TCGAP-TE4468 Pediatric pro-B cell acutie lymphoblastic bukemia Baylor-HGSC project-TCGA Homo septens TCGAP-TE4468 Pediatric pro-B cell acutie lymphoblastic bukemia Baylor-HGSC project-TCGA Homo septens TCGAP-TE4468 Pediatric pro-B cell acutie lymphoblastic bukemia Baylor-HGS
239	12840	25251	0.65	0.0E+00	246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4468
247	12848	25262	4.48	0.0E+00 AB		Ę	Homo sapiens mRNA for KIAA0768 protein, partiel cds
247	12848	25283	4.48	0.0E+00			Homo septems mRNA for KIA A0758 prodein partial ode
251	12851	25269	5.49	0 OF+00	0 0E+00		TOURS SEPTEMBER THE TOUR INVANCED PROVEIL COS
	-		- A	0.0E-100	IN COSSCEO		Homo sapiens NS1-associated protein 1 (NSAP1) mRNA

Table 4 Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Velue	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
263			6.16	0.0E+00	AL163201.2	N.	Homo saplens chromosome 21 segment HS21C001
280		25275	3.28	0.0E+00	AF231919.1	N	Homo sapiens chromosome 21 unknown mRNA
262	12860		2.01	0.0E+00	X89772.1	N	H. sapiens mRNA for interferon alpha/beta receptor (long form)
270			9.68	0.0E+00	AF231919.1	Z	Homo sapiens chromosome 21 unknown mRNA
283		25297	1.24	0.0E+00	4507500 NT	F	Homo sepiens T-cell lymphoma linvasion and metastasis 1 (TIAM1) mRNA
283				0.0E+00	4507500	N	Homo sepiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
285			2.17	0.0E+00	7706028 NT	Z	Homo saplems hypothetical protein (LOC61250), mRNA
296			1.4	0.0E+00	D83327.1	Z	Homo sapiens DCRR1 mRNA, partial cds
297			2.25	0.0E+00	D83327.1	N	Homo saplens DCRR1 mRNA, partial cds
297	12893	25314	2.26	0.0E+00	D83327.1	Z	Homo sapiens DCRR1 mRNA, partial cds
298	12894		-	0.0E+00	AW845293.1	EST HUMAN	IL2-CT0031-181199-020-803 CT0031 Homo sepiens cDNA
307			7.98	0.0E+00	4557029	N	Homo sæplens potasslum inwardiy-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
307	12802	26322	7.96	0.0E+00	4557029 NT	7	Homo sapiens potassium Inwardly-rectifying channel, subfamily J. member 15 (KCNJ16) mRNA
318	12913		5.38	0.0E+00	AB028942.1	K	Homo sapiens mRNA for KIAA1019 protein, partial cds
319			3.87	0.0E+00		ĘZ	Homo sapiens mRNA for KIAA1019 protein, partial cds
320	15281		9.69	0.0E+00	4506728 NT	N	Homo saplens ribosomal protein S5 (RPS5) mRNA
							Homo sepiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase.
321		25334	0.63	0.0E+00	4503914 NT	F.	phosphoribosylaminoimidazde synthetase (GART) mRNA
322	- 1		2.89		AA480002.1	EST_HUMAN	zv18c08.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:753994 6'
323			18.21	0.0E+00	4507152 NT	5	Homo saplens SON DNA binding protein (SON) mRNA
324			20.52	0.0E+00	4507152 NT	F	Homo saplens SON DNA binding protein (SON) mRNA
328			1.56	0.0E+00	AF114488.1	Į.	Homo saplens Intersectin short Isdiom (ITSN) mRNA, complete cds
2			1.12	0.0E+00	014867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
341	\Box		1.12	0.0E+00	014867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
342			5.45	0.0E+00	7657213 NT	5	Homo saplens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
88	12934	25350	2.15	0.0E+00	7657213 NT	Ļγ	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
358	12948	25362	6.22	0.0E+00	5174574 NT	5	Homo sapiens myeloid/jymphold or mixed-lineage leukernia (trithorax (Drosophila) homolog); translocated to, 4 (Mil 174) mRNA
369	12949	25363	2.07	0.0E+00	4505256 NT	5	Homo sapiens mossin (MSN) mRNA
362	L		8.78	0.0E+00	4827057 INT		Homo saplens X-box binding protein 1 (XBP1) mRNA
365			1.56	0.0E+00	U71600.1	N	Human zinc finger protein zip31 (zf31) mRNA, partial cds
370			2.06	0.0E+00	AF231919.1	N	Homo saplens chromosome 21 unknown mRNA
370			2.08	0.0E+00		M	Homo sapiens chromosome 21 unknown mRNA
371	15282	25378	2.71	0.0E+00	AF231919.1	NT	Homo saplens chromosome 21 unknown mRNA

					¥		
Probe E SEQ ID SE NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
468	13042		8.0	0.0E+00	AA324262.1	EST_HUMAN	EST27054 Cerebellum II Homo septens cDNA 6' end
J	13043		1.04	0.0E+00	BE254447.1	EST_HUMAN	601111520F1 NIH_MGC_16 Hamo saplens cDNA clone IMAGE:3352348 5'
485	13059	25475	3.6	0.0E+00	4504632 NT	F	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 18 (HTR1B) mRNA
485	13059	25476	3.5	0.0E+00	4504532 NT	F	Homo sapiens 5-hydroxydryptamine (serotonin) receptor 18 (HTR18) mRNA
491	13064	25484	6.55	0.0E+00	4557887 NT	F	Homo saplems keratin 18 (KRT18) mRNA
	13064	25485	5.55	0.0E+00	4557887 NT	F	Homo saplens keratin 18 (KRT18) mRNA
	13075	25491	3.25	0.0E+00	AL163246.2	M	Homo saplens chromosome 21 segment HS21C046
	13076	25492	6.81	0.0E+00	AL183246.2	ᅜ	Homo saplens chromosome 21 segment HS21C046
	13076	25483	6.81	0.0E+00	AL163246.2	Z	Homo sapiens chromosome 21 segment HS21C048
	13084	25498	4.94	0.0E+00	AB033035.1	Ę	Homo sapiens mRNA for KIAA1209 protein, partial cds
Ш	13086	25500	. 1.82	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NTZRP4 Homo sapiens cDNA clone NTZRP4000837 51
521	13084	25506	2.32	0.0E+00	BE385144.1	EST_HUMAN	601274951F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3615756 5
	15285	25507	1.26	0.0E+00	AW938825.1	EST_HUMAN	PM0-DT0065-130400-002-c06 DT0065 Homo saplens cDNA
	13097	25509	1.13	0.0E+00	AL117233.1	NT	Novel human gene mapping to chomosome 1
	13098	25610	1.07	0.0E+00		LN	Homo sapiens PC328 protein (PC326), mRNA
	13102		0.76	0.0E+00	BF373403.1	EST_HUMAN	IL2-FT0169-070800-120-F07 FT0169 Homo saplens cDNA
	13109	25520	6.97	0.0E+00	AL163210.2	NT	Homo saplens chromosome 21 segment HS21C010
	15286	25524	1.89	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-h05 BT0635 Homo saplens cDNA
649	13121	25530	1.77	0.0E+00	BF028005.1	EST_HUMAN	801764858F1 NIH_MGC_63 Homo septens cDNA clone IMAGE:3996998 5'
	13127	25537	1.28	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
	13130	26540	6.8	0.0E+00	6006030 NT	Į.	Homo saplens transcription elongation factor B (SIII), polypeptide 1-like (TCEB1L) mRNA
J	13131	25541	4.21	0.0E+00		NT	Homo sapiens guanine nucleotide binding protein (G protein), aipha 11 (Gq class) (GNA11) mRNA
920	13131	25542	4.21	0.0E+00	4504036 NT	M	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA.
							Homo sapiens X-linked anhidroitic ectodermal dysplasia protain gene (EDA), exon 2 and flanking repeat
L	2130		97.9	0.0=+00	AF003528.1	NT	regions
_	13144	25552	1.44	0.0E+00	AW135324.1	EST_HUMAN	UI-H-BIT-eab-h-04-0-UI.s1 NCI_CGAP_Sub3 Homo septens cDNA clone IMAGE:2713951 31
88	13154		4.68	0.0E+00	D10083.1	NT	Homo saplens RGH1 gene, retrovirus-like element
	,		•			- - !	Homo capiens ubiquinol-cytochrome c reductase, Rieske fron-sulfur polypeptide 1 (UQCRFS1), nuclear gene
1	13172	25577	1.42	0.0E+00	5174742	5	encoding mitochondrial protein, mRIVA
	338		7.27	0.0E+00	J04066.1	Ā	Human apolipoprotein A-I (ApoA-I) gene, exon 1
_	13187	26691	2.11	0.0E+00	BF104898.1	EST_HUMAN	601822827F1 NIH_MGC_75 Homo saplens cDNA clone IMAGE:4045447 5'
_	13189	25593	0.7	0.0E+00		Z	Homo sepiens hypothetical protein FLJ20701 (FLJ20701), mRNA
	13189	25594	0.7	0.0E+00		F	Homo seplens hypothetical protein FLJ20701 (FLJ20701), mRNA
622	13189	26693	0.88	0.0E+00	8923631 NT	M	Homo septens hypothetical protein FLJ20701 (FLJ20701), mRNA
						1	

							2
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
23	13294	25719	12.8	0.0E+00	0.0E+00 M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
743	13304	25728	1.88		E032492 NT	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
749	13309				0.0E+00 AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
749	13309		4.65		0.0E+00 AF284750.1	MT	Homo sapiens ALR-like protein mRNA, partial cds
751	13311	25738	11.62	0.0E+00	11545800 NT	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
757	13317	25746	2.35		0.0E+00 BE241577.1	EST HUMAN	TCAÄP100779 Pediatric acute myelogenous leukemia celi (FAB M1) Baytor-HGSC project≠TCAA Hαmo sepiens cDNA clone TCAAP0779
1111	13336				Γ	N	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
E	13336			1		LN	Homo sapiens MHC olass I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
280	13339	25774	8.37			NT	Humen, plasminogen activator inhibitor-1 gene, exons 2 to 9
780	13339	25775		0.0E+00	03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
783	13342				.B037760.1	TN	Homo sapiens mRNA for KIAA1339 protein, partial cds
784	13343	25777			3912749	L	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
786	15293	25779	1.34		30612.1	NT	Homo saplens mRNA for repressor protein, partial cds
787	13345		2.29		E869735.1	EST_HUMAN	601445647F1 NIH_MGC_65 Hamo sapiens cDNA clone IMAGE:3849803 5'
791	13349				R48915.1	EST HUMAN	yi69g08.r1 Soares breast 2NbHBst Homo sapians cDNA clone IMAGE:154046 5'
792	13350				5032086	LN	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA
801	13359		1.81	0.0E+00	B01139	LN	Homo sapiens gene for AF-8, complete cds
804	13363				7661965	L	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
815	13373				380006.1	NT	Human mRNA for KIAA0184 gene, partial cds
815	13373	25811	1.15	100+30'0	380008.1	LN	Human mRNA for KIAA0184 gene, pertiel cds
820	⁷ 13378				K89772.1	TN	H.sepiens mRNA for interferon elpha/beta receptor (long form)
824	13382	25819		0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
824	13382		1 4.48	0.0E+00	AB020717.1	TN	Homo saplens mRNA for KIAA0910 protein, partial cds
828	13386	25826	10.33	0.0E+00	5174478 NT	NT	Homo sapiens pericentrin (PCNT) mRNA
830	13387		8.7		4507500 NT	NT	Homo sepiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
847	13404	25847	1.73		7857213 NT	LN	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13405		3.66	0.0E+00	7857213 NT	IN	Homo saplens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
850	13407		3.21		4557686 NT	TN	Homo sapiens potassium voltage-gated channel, Isk-related family, member 1 (KCNE1) mRNA
858	13412	25856	1.5	0.0E+00	AF108830.1	ĹΝ	Homo saplens serine-threonine protein kinase (MNBH) mRNA, complete cds
856	13412	25857	1.5	0.0E+00	AF108830.1	TN	Homo saplens serine-threonine protein kinase (MNBH) mRNA, complete cds
857	. !	26858			AF10883	'n	Homo saplens serine-threonine protein kinase (MNBH) mRNA, complete cds
862			1			TN	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
866	13421	25868	3 2.9	0.0E+00	4507500 NT	NT	Homo sepiens T-cell lymphoma invesion and metastasis 1 (TIAM1) mRNA
					! !		

Siligie Excii Piodes Expiessed III Laug	SEQ Expression (Top) Hit Acession Detabase No. Signal BLAST E No. Source	0.0E+00 4507500 NT	1,83 0,0E+00 AF027153,1 NT Homo saplens sodium/myo-Inositicl cotransporter (SLC5A3) gene, complete cds	26880 5.39 0.0E+00 AB028942.1 NT Homo septens mRNA for KIAA1019 protein, partial cds	25881 5.39 0.0E+00 AB028942.1 NT Homo sapiens mRNA for KIAA1019 protein, partial cds	25882 10.17 0.0E+00 4507152 NT Homo septens SON DNA binding protein (SON) mRNA	26883 4.2.1 0.0E+00 AB028942.1 NT Homo sapiens mRNÀ for KIAA1019 protein, partial cds	26884 6.65 0.0E+00 4508728 NT Homo seplens ribosomal protein S5 (RPS5) mRNA	0.0E+00 AB020717.1 NT	1.34 0.0E+00 AB020717.1 NT	2.51 0.0E+00 AA533272.1 [EST_HUMAN	25890 2.51 0.0E+00 AA633272.1 EST_HUMAN Inj66407.51 NCI_CGAP_Pr10 Homo capiens cDNA clone IMAGE:997453	6.56 0.0E+00 BF677694.1	0.0E+00 7857213	1.47 · 0.0E+00 7657213 NT	7657213 NT	3.31 0.0E+00 7657213 NT.	25917 1.08 0.0E+00/AL163203.2 NT Homo septens chromosome 21 segment HS21C003		0.0E+00 BE089592.1 EST_HUMAN	0.0E+00 AL163203.2 NT	13.1 0.0 É+00 450 4958 NT Homo saplens laminin receptor 1 (67/4D, ribosomal protein SA) (LAMR1), mRNA	8.4 0.0E+00 4504958 NT	3.38 0.0E+00 AF089747.1 NT	2.28 0.0E+00 L28101.1 NT	25944 0.96 0.0E+00 Z20656.1 NT (Homo saplens of cardiac alpha-myosin heavy chain gene	25945 0.98 0.0E+00 Z20656.1 NT Homo saplens of cardiac alpha-myosin heavy chain gene		26947 1.38 0.0E+00 Z20656.1 NT Homo saplens of cardiac alpha-myosin heavy chain gene	25970 2.8 0.0E+00 M37190.1 NT Human ras Inhibitor mRNA, 3' end	25971 9.71 0.0E+00 M37190.1 NT Human ras Inhibitor mRNA, 3' end	M37190.1 NT	2.26 0.0E+00 4507430 NT	2.26 0.0E+00 4507430 NT	26981 2.66 0.0E+00 A1001948.1 (EST_HUMAN 0S98603.81 NGI_CGAP_GC3 Hamo septens cDNA clane IMAGE:1613404.3'
	Expression Signal		1.83	5.39	5.39	10.17	4.21	6.65	1.34					1.47								13.1									9.71				
	ORF SEQ ID NO:											L	L									*													
	Exan SEQ ID NO:	13421	13428	13432	13432	13433	13434	13435	13439	13439	13440	13440	13441	13445	13445	L	Ц	13468	13475	13475		13494				13501	13501	13502	13502	13528	13529	Ц			16298
	Probe SEQ ID NO:	868	873	877	877	878	879	88	884	88	885	882	886	880	890	891	891	914	921	921	931	941	944	845	946	948	849	950	920	975	926	977	978	978	986

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
986	15298	25982	2.66	0.0E+00	Af001948.1	EST_HUMAN	os98e03.s1 NCI_CGAP_GC3 Hamo septems cDNA clone IMAGE:1813404 3'
886	13540	25984	6.3	0.0E+00	7657266 NT	N	Homo sapiens KIAA0929 protein Msx2 Interacting nuclear target (MINT) homolog (KIAA0929). mRNA
888	13550	25994	3.44	0.0E+00	AB03056	. TN	Homo saplens mRNA for PSP24, complete cds
1008	13559	26001	1.81	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
1008			1.81	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo saplens cDNA
1008			1.81	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
1010			3.12	0.0E+00	X52207.1	FN	Homo sepiens partial c-fgr gene, exons 2 and 3
1010			3.12	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
1019	13570	26014	1.68	0.0E+00	4757969 NT	Į.	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
1031	Ц		1.21	0.0E+00	U83668.1	L'N	Human beta-tubulin (TUB4q) gene, complete cds
1032			8.88	! !	U83668.1	Į.	Human beta-fubulin (TUB4q) gene, complete cds
1033	13582	26023	8.27		U83668.1	IN.	Human bete-tubulin (TUB4q) gene, complete cds
1036			4.93	0.0E+00	AF198490.1	N	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
1037	13585		9.13	0.0E+00	AF198490.1	LN-	Homo sapiens 8q22.1 region and MTG8 (CBFA271) gene, partial cds
1040			1.67	0.0E+00	AF111170.3	FZ.	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1041			4.07	0.0E+00	AF111170.3	Z	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1042	13588	26028	2.76	0.0E+00	AF111170.3	Į.	Homo sapiens 14q32 Jaggedz gene, complete cds; and unknown gene
1043	13580	26029	2.2	0.0E+00	AF111170.3	N-	Homo sapiens 14q32 Jagged2 gene, complete ods; and unknown gene
1048			2.62	0.0E+00	7661685 NT	N	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1050	13596	26036	1.69		5803114 NT	L'X	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1051	13597.		2.03	0.0E+00	AA458680.1	EST HUMAN	ae86g07.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW:PRS8 HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8
į							EST51124 WATM1 Homo septems CDNA done 51/24 stmtlar to DNA-DIRECTED RNA POLYMERASE II
1054 4054	13800	26040	1.55	0.0E+00	N43182.1	EST_HUMAN	(alignment Ser and Pro with BLASTx or p)
,			-	1			EST61/24 WATM1 Homo sapiens oDNA done 61/24 similar to DNA-DIRECTED RNA POLYMERASE II.
	\perp	1	1.55	0.0E+00	N43182.1	EST HUMAN	(alignment Ser and Pro with BLASTx or p)
1025		Į	1.41	0.0E+00		NT	Homo saplens TRAF (antily member associated NFKB activator (TANK) mRNA
1055		26043	1.41	0.0E+00		NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
1058	_1		4.67		8922933 NT	TN.	Homo sepiens hypothetical protein FLJ11196 (FLJ11198), mRNA
1073	\perp		2.26		4758569 NT	NT	Homo sapiens heat shock 70kD protein 9B (mortalin-2) (HSPA9B) mRNA
1991	13636		1,98		4826672 NT	NT	Homo sapiens cadherin 6, K-cadherin (fetal ktdney) (CDH6) mRNA
6			1.98			LN L	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1095	13640	26079	3.19	0.0E+00	8923624 NT	님	Homo saplens hypothetical protein FLJ20695 (FLJ20695), mRNA

Table 4
Single Exon Probes Expressed In Lung

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	Top Hit Descriptor	Homo sepiens hypothetical protein FLJ20695 (FLJ20695), mRNA	Homo saplens mRNA for alpha-tubulin 8 (TUBA8 gene)	Homo septens hypothetical protein FLJ20080 (FLJ20080), mRNA	Homo sepiens alkylation repair, alkB homolog (ABH), mRNA	Homo septens Death associated protein 3 (DAP3) mRNA	MR0-BN0115-200300-003-H08 BN0115 Homo sapiens cDNA	Homo saplens potassium channel, subfamily K, member 9 (KCNK9), mRNA	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens ribosomal protein S27a (RPS27A) mRNA	Homo sepiens hypothetical protein FLJ20309 (FLJ20309), mRNA	Homo sapiens DNA for Human P2XM, complete cds	Homo sepiens DNA for Human P2XM, complete cds	Homo sepiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo septens similar to rat Integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA	H.sepiens ART4 gene	H.sapiens ART4 gene	qb22d10.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1697011.3*	Homo sapiens mRNA for KIAA0903 protein, partial cds	Homo saplens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo saplens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo saplens chromosome 12 open reading frame 3 (C12ORF3), mRNA	Homo seplens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA	Homo sapians mRNA for KIAA1414 protein, partial cds	Homo sapiens keratin 18 (KRT18) mRNA	Homo saplens mult. (E. coli) homolog 3 (MLH3), mRNA	Homo seplens hypothetical protein FLJ10697 (FLJ10697), mRNA	Homo sapiens ALR-like protein mRNA, partial cds	Homo sapiens ALR-like protein mRNA, partial cds	Homo saplens ALR-like protein mRNA, partial cds	Homo santens Al Rilke protein mRNA partiel ode
	Top Hit Database Source	FZ	F	Z	Ž	TN	EST_HUMAN	F	N-	Ę	F	Z	Z	Z	Z	Z	Ę	F	Ę	Ę	EST_HUMAN	Ę	Ŋ	Ŋ	Ę	NT	K	Ŋ	뉟	Z	N	Z	NT	NT	5
"	Top Hit Acession No.	8923624 NT	AJ245922.1	TN 23087 NT	5174384 NT	4768117 NT	BE006208.1	7708134 NT	7706134 NT	4826947 NT	4826947 NT	4506712 NT	R923290 NT	AB002059.1	AB002059.1	7657468 NT	7657468 NT	7706500 NT	X95826.1	X95826.1	AI147650.1	AB020710.1	4758081 NT	4758081 NT	9966844 NT	7305076 NT	7305076 NT	AB037835.1	4557887 NT	7857338 NT	8922593 NT	AF264750.1		AF264750.1	AF264750.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00			0.0E+00
	Expression Signal	3.19	19.5	66.0	3.13	2.94	1.97	5.14	5.14	1.28	1.28	19:61	1.03	4.01	11.5	3.42	3.42	1.31	0.76	0.78	0.71	1.62	98'0	0.88	1.22	1.63	1.63	1.42	6.55	1.06	1.01	1.76	1.76	2.24	1.24
	ORF SEQ ID NO:		26081			26096			26131	26141	26142	26143	26145		26149	26150			26155	26156			26168						26196						26246
	Exen SEQ ID NO:		13841	13643			٠,		13690	13702						13711							_	_{	_1	L		- 1			}		l l		15304
	Probe SEQ ID NO:	1095	1098	1098	1100	1109	1123	1146	1146	1159	1159	1160	1162	1165	1167	1168	1168	1172	1173	1173	1174	1176	1185	1185	1186	1189	1199	1202	1209	1240	1255	1259	1259	1280	1261

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1279	13815	26269	19.9	0.0E+00 AF	109718.1	NT	Homo sapjens chromosome 3 subtelomeric region
1280	13816	26270	1.71	0.0E+00	1N 8602034	N	Homo sapiens chondroitin suffate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1280	13825	26276	0.64	0.0E+00	4505740 NT	N F	Homo sapiens prefoldin 4 (PFDN4) mRNA
1289			1.7	0.0E+00 Y1	8000.1	TN	Homo sapiens NF2 gene
1307	13842	76291	61.9		4506718 NT	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1314		26300	3.11	0.0E+00	084479.1	TN	Homo sapiens Williams-Beuren syndrame deletton transcript 9 (WBSCR9) mRNA, complete cds
1320		26304	1.84	0.0E+00 AB	040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1320	13855	26305	1.84	0.0E+00 AB	040940.1	TN.	Homo sapiens mRNA for KIAA1607 protein, partial cds
1332	13868	26318	4.24	0.0E+00	5174748 NT	N.	Homo sapiens Wolfram syndrome (WFS) mRNA
1332	13868	26319	424	0.0E+00	5174748 NT	FN	Homo sapiens Wolfram syndrome (WFS) mRNA
1332		26320	4.24	0.0E+00	5174748 NT	F	Homo sapiens Wolfram syndrome (WFS) mRNA
1333	13869		3,15	0.0E+00 AF	096156.1	N.	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1343	15306	26332	1.27	0.0E+00	7657529	F	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1343	15306	26333	1.27	0.0E+00	7857529 NT	N	Homo sapiens rhabdoid fumor deletton region protein 1 (RTDR1), mRNA
1348		26338	1.12	0.0E+00	5803146 NT	Ę	Homo saplens ring finger protein 9 (RNF9), mRNA
1349	13884	26339	1.48	0.0E+00	4508004 NT	N	Homo sapiens zino finger protein 173 (ZNF173) mRNA
1351		26340	8.0	0.0E+00	5803146 NT	TN	Homo sapiens ring finger protein 9 (RNF9), mRNA
1352		26341	1.37	00+30'0	4508004 NT	Z.	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1354	13889	26343	4.82	0.0E+00 AB	1011149.1	Ę	Homo sapiens mRNA for KIAA0577 protein, complete cds
1355	13890	26344	1.5	0.0E+00	7661965 NT	N	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1356		26345	6.48	0.0E+00	7661965 NT	Z	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1357		26346	-	0.0E+00	N 28267387 NT	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1357		26347	5.58	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) hamdog 3 (PER3), mRNA
1369		26360	1.19	0.0E+00 M1	4123.1	NT	Human endogenous retrovirus HERV-K10
1440	13972	26429	1	0.0E+00 AJ	250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyld gene
1448	13980	26440	1.03	0.0E+00 AI	AI208756.1	EST HUMAN	gg38b06.x1 Sogres_testls_NHT Homo seplens oDNA done IMAGE:1837427 3' similar to WP:T27A1.5 CE14213 :
1449	13981	26441	6.18		F042208	1	RAN member RAS encodems family/Homo saniens RAN member RAS encodens family (RAN) mRNA
1457	L	26451	1.12	l		LZ	Homo sapiens proprotein convertase subtilisin/kaxin type 2 (PCSK2) mRNA
1457	_	26452	1.12	0.0E+00		LN	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1459		26455		0.0E+00	7705565 NT	NT	Homo saplens KIAA1114 protein (KIAA1114), mRNA
1459		26456	1.62	0.0E+00	7705565 NT	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1461	13993	26457	7.47	0.0E+00 A.	238093.1	NT	Homo saplens partial AF4 gene, exons 2 to 7 and Alu repeat elements

_			7	_	_	_	_	-	_	-	_		_	_	_	. 1			_			Τ"-	゙	۰	Γ"	۳		一	٣		~	٠,	. 1	٣,	Ĺ.,
	Top Hit Descriptor		Homo sapiens alphart-6fucosyltransferase (alphart-6FucT) gene, exon 7	Human nebulin mRNA, partial cds	Human nebulin mRNA, partial cds	Novel human gene on chromosome 20	Novel human gene mapping to chomosome 1	Human mRNA for KIAA0240 gene, partial cds	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA	Homo saplens KIAA0170 gene product (KIAA0170), mRNA	Human von Willebrand factor pseudogane corresponding to exons 23 through 34	Human von Willebrand factor pseudogene corresponding to exons 23 through 34	Homo sapiens hHDC for homolog of Drosophila headcase (LOC51696), mRNA	as34a03.r1 NCI_CGAP_GCB1 Homo sepiens cDNA clone IMAGE:815116 5	Cercopithecus aethlops cyclophilin A mRNA, complete cds	Cerceptihecus aethiops cyclophilin A mRNA, complete cds	EST388206 MAGE resequences, MAGN Homo sapiens cDNA	EST388206 MAGE resequences, MAGN Homo septens cDNA	Bovine mRNA for neurocalcin	Homo saplens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (1.44), and ETD3 (ETD3) menas, complete cits	Human T-cell receptor gamma chain VJCI-CIII region mRNA, complete cds	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA	Homo saplens transmembrane glycoprotein (GPNMB) mRNA	Homo saplens KIAA0957 protein (KIAA0957), mRNA	Homo saplens TNF-Inducible protein CG12-1 (CG12-1), mRNA	Human transglutaminase mRNA, complete cds	Homo saplens (itin (1TN) mRNA	Homo saplens titn (TTN) mRNA	Homo sepiens ribosomal protein L6 (RPL5) mRNA	Human laminin receptor (2H5 epitope) mRNA, 5' end	Homo sapiens chondrollin sulfate proteoglycan 4 (melenome-associated) (CSPG4), mRNA	humen cyes-2 gene	H.sapiens hHZB/e gene	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
	Top Hit Database	Source	NT	M	Į.	LN.	FN	LN FA	Į.	TN	NT.	NT	NT	N	EST_HUMAN	NT	LZ.	EST_HUMAN	EST_HUMAN	N	<u> </u>	IN		LN LN	L	NT	TN	LN	١	TN	IN	LN	IN	NT	LN
,	Top Hit Acession No.		F038280.1	135637.1	J35637.1	Ψ.	AL137764.1	D87077.1	6912457 NT	7681965 NT	7661965 NT	M60876.1	M60676.1	7708434 NT	AA481172.1	AF023860.1	AF023860.1	AW976097.1	AW976097.1	D10884.1	170027 4	M16768.1	4505404 NT	4505404 NT	7662405 NT	7656972 NT	M98478.1	4507720 NT	4507720 NT	4508654 NT	M14199.1	4503098 NT	D00333.1	283738.1	6921460 NT
}	Most Similar (Top) Hit T	Value	0.0E+00	0.0E+00	0.0E+00 U	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00		_		0.0E+00	0.0E+00	0.0E+00	-	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00[I		0.0E+00
	Expression Signal		5.12	0.91	16.0	4.67	1.11	1.62	4.92	1.18	1.18	4.21	4.21	2.23	1.14	16.18	16.18	0.95	0.95	1.13	7. 7	1 08	4.62	4.62	3.44	8.16	8.04	1.08	1.08	13.83	12.87	15.4	1.13	3.08	1.9
	ORF SEQ ID NO:		26466	28479	26480	26485	26486	26491	26494	26496		26502	26503	26530		26545		26549	26550	28551		26554	L					26565				26581			26596
	Exen SEQ ID	ë Ž	14001	14014	14014	14022	14024	乚	L	14033	14033	14038	14038	14070	14082	14086	14086	14088	14088	ட	14004	Ŀ	┸	L	14094	14095		14103	14103	15314	14104	14115	14122		14130
	Probe SEQ ID	ğ	1468	1482	1482	1480	1492	1498	1489	150	1501	1508	1506	1539	1550	1654	1554	1558	1556	1557	7860	1560	1561	1581	1562	1583	1568	1571	1571	1572	1573	1583	1590	1597	1598

Table 4 Single Exon Probes Expressed in Lung

1		_	-	_	_	_	_	_	_	-	_	_	-	- -	_	-,-	_		_		_	_	-	- -	_	_		-,-	_	_	_			_
	Top Hit Descriptor	Homo septiens potassium voltage-gated channel. Shab-related subfamily member 1 (KCNR1) mRNA	Human retinal degeneration slow (RDS) gene, exon 1	Human retinal degeneration slow (RDS) gene, exon 1	UI-H-BI1-efin-f-07-0-UI.s1 NOI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'	UI-H-BI1-afn-f-07-0-UI:s1 NCI_CGAP_Sub3 Homo saplens cDNA clone IMAGE:2722333 3'	601179164F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:3647239 5	601179164F1 NIH MGC 20 Homo saplens cDNA clone IMAGE:3547239 5	Homo saplens nuclear protein (NP220), mRNA	Homo sapiens nuclear protein (NP220), mRNA	Homo saplens RAD1 (S. pombe) homotog (RAD1) mRNA, and translated products	Homo sablens RAD1 (S. pombe) hamolog (RAD1) mRNA, and translated products	Homo sepiens DNA polymerase zeta catalvito subunit (REV3) mRNA, complete oria	Human transglutaminase mRNA, complete cds	Human transglutaminase mRNA, complete cds	Homo sabians transforming growth factor, beta 3 (TGFB3), mRNA	Homo sablens transforming growth factor, beta 3 (TGFB3) mRNA	Homo saplens death receptor 6 (DR6), mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	Human topolsomerase I pseudogene 1	Homo saplens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA	Homo sapiens nebulin (NEB), mRNA	Homo saplens nebulin (NEB), mRNA	Homo sapiens ectinin, alpha 4 (ACTN4) mRNA	Homo sapiens actinin, alpha 4 (ACTN4) mRNA	Homo sapiens mRNA for KIAA0790 protein, partial cds	Homo saplens mRNA for KIAA0790 protein, partial cds	Human TFEB protein mRNA, pertial cds	Human TFEB protein mRNA, partiel cds	x69b01.x1 NCL_CGAP_Pan1 Homo septens cDNA clone IMAGE:28799133'	x69b01.x1 NCI_CGAP_Pan1 Homo septens cDNA clone IMAGE:2679913.3	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA
מון וווסעד פופ	Top Hit Database Source	Į.	N	Į.	EST HUMAN	U. I	EST HUMAN	EST HUMAN	Z.	LN LN	Ę	۲	Z	¥	N	Ę	Z	LN.		¥	뉟	Ł	۲	LN.	Ä	뉟	Ę	Į.	Ę	F	EST HUMAN	EST_HUMAN	LN.	TN
	Top Hit Acession No.	4826783 NT	U07147.1	U07147.1	AW207280.1	AW207280.1	BE277465.1	BE277485.1	7657390 NT	7657390 NT	4506384 NT	4506384 NT	AF157476.1	M98478.1	M98478.1	4507464 NT	4507484 NT	7657038 NT		9.7	M55632.1	5901905 NT	8400716 NT	8400716 NT	4826638 NT	4826638 NT	AB01833.1	AB018333.1	M33782.1	M33782.1	AW 193024.1	AW193024.1	6912457 NT	6912457 NT
	Most Similar (Top) Hit BLAST E Vatue	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	_		=	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	1	0.0E+00	0.0E+00
	Expression Signal	277	4.12	4.12	1.72	1.72	1.89	1.89	1.05	1.05	2.26	2.26	1.25	16.65	16.65	1.81	1.81	1.38		3.73	3.83	4.47	0.88	0.88	7.48	7.48	2.33	2.33	2.77	2.77	2.43	2.43	6.14	6.14
	ORF SEQ ID NO:	26837	26838						26889	26890		76897		26898	26899	26908	26907	26909		1	╽	┛				26935					26951			26954
	Exon SEQ ID NO:	14341	14342	14342	14346	14346	14367	14367	14396	14396	14398	14398	14404	15324	15324	14409	14409	14411		_[_	_L	15325	14433	14433	14434	14434	1444	14444	14449	14449	14451	14451	14452	14452
	Probe SEQ ID NO:	1819	1820	1820	1824	1824	1845	1845	1874	1874	1876	1876	1882	1883	1883	1888	1888	1891	- 6	280	960	1899	1914	1914	1915	1915	1925	1925	1930	2 88	1932	1932	1933	1933

g	n ev			Most Similar			
	SEQ IO NO:	ORF SEQ ID NO:	. Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1935	14454		2.33	0.0E+00	7662095 NT	NT	Homo sapiens KIAA0408 gene product (KIAA0408), mRNA
1936	14455		1.04	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0377 protein, complete cds
1943	14462	26966	6.1	0.0E+00	4B040946.1	N	Homo sapiens mRNA for KIAA1513 protein, partial cds
1957	14475		1.68	0.0E+00	AF273841.1	NT TA	Homo sapiens SMCY (SMCY) gene, complete cds
1957	14475	26982	1.68	0.0E+00 AI	-273841.1	IN	Hamo sepiens SMCY (SMCY) gene, complete cds
1983	14499	27008	6.95	0.0E+00 B	BE743215.1	EST HUMAN	801573895F1 NIH_MGC 9 Home saplens cDNA clone IMAGE:3835198 61
1983	14499	600/2	96.9	0.0E+00 BE	BE743215.1	EST HUMAN	601573895F1 NIH MGC 9 Homo saplens cDNA clone IMAGE:3835198 5
1985	14501	27010	6.18	0.0E+00	0.0E+00 AU140831.1	EST HUMAN	AU140831 PLACE4 Homo septers CDNA clone PLACE4000321 5
1987	14503	27012	1.11	0.0E+00	0.0E+00 AA077589.1	EST HUMAN	7822E10 Chromosome 7 Fetal Brain cDNA Library Homo sanians cDNA clone 7829E10
1987	14503	27013	1.11	0.0E+00 A	AA077589.1	EST HUMAN	7822E10 Chromosome 7 Fetal Brain cDNA Library Homo serviens cDNA clone 7R22E10
1989	14505		3.22	0.0E+00	7657468 NT	N.	Homo saciens similar to rat Integral membrane divocandain POM121 (POM1211 1)
1991	14507		1.07	0.0E+00	4585863 NT	N-I	Homo sapiens phosphodiastarase 8A cGMP-reading and eluha (PDESA) mBNA
1992	14508	27016	1.07	0.0E+00	0.0E+00 Z42399.1	EST HUMAN	HSC0IC021 normalized infant brain cDNA Homo seniens cDNA clone colon?
							qv90f08.x1 NCI_CGAP_Ut2 Homo saplens cDNA clone IMAGE:1988871 3' similar to contains Alu reneditive
1994	14510		1,2	0.0E+00	0.0E+00 A1244247.1	EST HUMAN	element
1998	14514		3.99	0.0E+00	BE877225.1	EST HUMAN	601485146F1 NIH_MGC_69 Hamo saplens cDNA clone IMAGE:3887747 5
88	14518	∐	1.5	0.0E+00 B		EST_HUMAN	801802604F1 NIH_MGC_19 Homo septems cDNA clone IMAGE:4135320 6
8 8 8 8	14516		1.5	0.0E+00 B	BF315325.1	EST HUMAN	801902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5
2002	14521	27033	3.31	0.0E+00 BE	BE697125.1	EST_HUWAN	RC3-CT0413-270700-022-d10 CT0413 Homo septens cDNA
2002	14521	27034	3.31	0.0E+00	BE697125.1	EST HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sertiens cDNA
2011	14527	27041	1.57	0.0E+00	00620.1	Į.	Human plasma membrane calcium ATPase Isoform 2 (APT2R2) mRNA comlete cols
2911	14527	27042	1.57	0.0E+00	L00620.1	LN L	Human plasma membrane calcium ATPase Isoform 2 (APT2B2) mRNA, comlete cds
2016	14532	27046	204	0.0E+00		TN	Homo sepiens GTP binding protein 1 (GTPBP1) mRNA
2034	14550		12.42	0.0E+00 B	E767964.1	EST_HUMAN	QV1-GN0065-140800-318-c10 GN0065 Homo saplens cDNA
2035	14551		1.11	0.0E+00 A	F018963.1	NT	Homo septens X-linked juvenile retinoschists protein (XLRS1) dene. exon 6 and complete cds
2037	14553	27064	3.31	0.0E+00	BF027562.1	EST HUMAN	601672066F1 NIH MGC 20 Homo saplens cDNA clone IMAGE:3954785 51
2038	14554		1.24	0.0E+00	BE072624.1	EST HUMAN	PM0-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA
2039	14555	27066	7.22	0.0E+00	4503756	LN	Homo saplens flavin containing monogygenese 2 (FMO2) mRNA
2041	14557	27068	4.31	0.0E+00 A	W752708.1	EST HUMAN	IL3-CT0218-271098-022-G10 CT0219 Homo saplens cDNA
2043	14559	27070	2.48	0.0E+00	0.0E+00 AI904640.1	EST_HUMAN	QV-BT085-020399-092 BT065 Homo saplens cDNA
2043	14559	27071	2.49	0.0E+00 A	1904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2086	14600		0.89	0.0E+00		NT	Human DNA-binding protein mRNA, 3'end
2093	14607	27125	6.0	. 0.0E+00		IN	Human mRNA for KIAA0244 gene, partial cds
2094	14608	27128	30.97	0.0E+00	0.0E+00 AV738288.1	EST_HUMAN	EST_HUMAN AV738288 CB Homo capiens cDNA clone CBNBDE08 6'

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2094		27127	30.97	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sepiens cDNA clone CBNBDE08 5'
2098	14610	27129	9.71	0.0E+00	A931691.1	EST_HUMAN	0032e01.s1 NCI_CGAP_Lu5 Homo saplens cDNA clone IMAGE:1567898 3'
2100	14614	27133	16.79	0.0E+00	BF344434.1	EST_HUMAN	602014829F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4150734 5'
2101	14615	27134	34.41	0.0E+00	E748899.1	EST_HUMAN	601672186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
2104			4.48	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo saptens cDNA
2104	14618	27138	4.46	0.0E+00 B	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo saplens cDNA
2108	15329	27143	3.62	0.0E+00	BF313617.1	EST_HUMAN	801800261F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:4129622 6'
2111	14624	27146	59'6	0.0E+00	BE018750.1	EST_HUMAN	bb84e02.y1 NIH_MGC_10 Homo septens cDNA clone IMAGE:3049082 6' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-IRELATED PROTEIN;
2113	14626	27148	1.53	0.0E+00	AA042813.1	EST_HUMAN	zk53c07.s1 Soeres_pregnant_uterus_NbHPU Homo espiens cDNA clons IMAGE:486540 3' similar to gb:X65957_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
. 2113	14626	27149	1.63	0.0E+00	AA042813.1	EST HUMAN	zk33c07.s1 Soares, pregnant, uterus, NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to abx368957 cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2120	14633	27156		0.0E+00	AL163204.2	LN	Homo saplens chromosome 21 segment HS21C004
2120	14633	27157	1.15	0.0E+00/	4L163204.2	TN	Homo sapiens chromosome 21 segment HS21C004
2121	14634	27168	1.47	0.0E+00	7662401 NT	LN	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2121	14634	27159	1.47	0.0E+00	7662401 NT	L	Hamo saplens KIAA0952 protein (KIAA0952), mRNA
2126			1.03	0.0E+00	U36264.1	IN	Human befa-prime-adaptin (BAM22) gene, exon 16
2127			6.17	0.0E+00		EST_HUMAN	#12b10.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712891 51
2134		27170	1.53	0.0E+00	BE897487.1	EST_HUMAN	801432317F1 NIH_MGC_72 Hamo saplens cDNA clone IMAGE:3917463 6'
2135	- 1			0.0E+00	M20903.1	NT	Human apoliprotein C-I pseudogene, complete cds
2149	- 1					NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2158		27194	69.69		BE895281.1	EST_HUMAN	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 5'
2161	14674		1.67	0.0E+00	ш	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5
2161			1.67	0.0E+00	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Home saplens cDNA clone IMAGE:3897497 6'
2163	ı		1.09	0.0E+00	AB037784.1	TN	Homo saplens mRNA for KIAA1363 protein, partial cds
2194	ı	1	5.07	0.0E+00	BF344756.1	EST_HUMAN	602014009F1 NCI_CGAP_Bm64 Homo sepiens cDNA clone IMAGE:4149770 5/
2194	1		6.07	0.0E+00	BF344756.1	EST_HUMAN	602014009F1 NCI_CGAP_Brn64 Homo saplens cDNA clone IMAGE:4149770 67
2195	14706	27228		0.0E+00	11545748 NT	TN	Homo saplens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2195		27227	2.4	0.0E+00	11545748 NT	TN	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2198	_		3.37	0.0E+00	AI076404.1	EST_HUMAN	oz09c07.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saplans cDNA clone IMAGE:1674828 3'
2188			1.47	0.0E+00	~ 1	EST_HUMAN	zv78a11.r1 Scares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2198	[1.47	0.0E+00	ŒΙ	EST HUMAN	zv78a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2200	14711	27233	1.47	0.0E+00	BF347039.1	EST_HUMAN	602021846F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157339 5

Probe E SEQ ID SE NO:	Exan OF SEQ ID II	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
2325	14832	27346	11	0.0E+00	BE937632.1	EST_HUMAN	MR1-TN0021-280800-001-h06 TN0021 Homo sepiens cDNA
	14838		1.42	0.0E+00	AB005622.1	EST_HUMAN	AB005622 HeLa cDNA (T.Noma) Homo sapiens cDNA similar to adenylate kinase isozyme 2
	14841	27357	6.09	0.0E+00	6006002 NT	LN LN	Homo sapiens glufamate receptor, fonotropio, N-methyl D-aspartate 2A (GRIN2A) mRNA
i	14845	27361	3.53	00+30'0	D85606.1 ·	Z L	Homo sapiens gene for cholecystokinin type-A receptor, complete cds
2340	14845	27362	3.53	0.0E+00	D85606.1	E	Hamo sapiens gene for cholecystoldnin type-A receptor, complete cds
	14853	27373	3.39		AF106275.1	NT	Homo saplens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
1	14881	27382	1.89	0.0E+00	5729777 NT	F	Homo saplens collagen, type XII, alpha 1 (COL12A1), mRNA
	14864	27384	8.93	0.0E+00	BE831003.1	EST_HUMAN	CM0-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA
	14884	27386	9.93	00+30'0	BE831003.1	EST_HUMAN	CM0-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA
	14868	27388	6.02	0.0E+00		EST_HUMAN	602/84658T1 NIH_MGC_42 Home septens oDNA clone IMAGE:4300383 3'
2376	14880	27399	3.6	00+30.0	AW466922.1	EST_HUMAN	ha04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA done IMAGE:2872759 3'
	14884	27402	2.97	00+30.0	Γ	EST_HUMAN	UI-HF-BP0p-ais-c-07-0-UI.r1 NIH_MGC_51 Hamo sapiens cDNA clane IMAGE:3072780 5'
	_	-					qv23f06.x1 NCI_CGAP_Lym6 Homo sapiens cDNA done IMAGE:1982435 3' similar to contains element
_[14894		8.14		AI287878.1	EST_HUMAN	MIR repetitive element ;
	14902	27421	8.68		5453965 NT	TN	Homo septens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
	14902	27422	8.68	0.0E+00	5453965 NT	FX	Homo saplens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
	14917		2.28		AW813853.1	EST_HUMAN	RC3-ST0197-300300-016-c04 ST0197 Homo septens cDNA
	14920	27437	24.94		BE795542.1	EST_HUMAN	601592530F1 NIH_MGC_7 Hamo saplens cDNA clone IMAGE:3946518 51
	14411	26909	5.17		7667038	TN	Homo saplens death receptor 6 (DR6), mRNA
	14921	27438	1.88		BF509482.1	EST_HUMAN	UI-H-BI4-aoz-b-08-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086535 3/
	14925	27441	1.59			LΝ	Homo sapiens mRNA for membrane transport protein (XK gane)
ı	14926		3.24		5453871 NT	LN	Homo sapiens platelet-derived growth factor receptor-like (PDGFRL) mRNA
2425	14928	27443	0.93		BE910378.1	EST_HUMAN	601503356F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3905148 51
	14929	27444	7.9		7657468 NT	LN	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
- 1	14930	27445	0.89		8923340 NT	LN	Homo saplens hypothetical protein FLJ20366 (FLJ20366), mRNA
- 1	14931	27446	3.79		U93239.1	L	Human Sec62 (Sec62) mRNA, complete cds
	14936	27451	2.76	00+30 ⁰	BE886490.1	EST_HUMAN	601508211F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3909868 6'
	14940	27457	3.23	0.0E+00	BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
.	14940	27458	3.23		BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 6'
	14941	27459	2.94			EST_HUMAN	AF114027 Homo saplens lung fetus Hamo saplens cDNA clone ESF6
J	14943	27482	0.91	0.0E+00	AF245505.1	NT	Homo sapiens adlican mRNA, complate cds
[14970	27483	2.97	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo saplens cDNA clone Y79AA1001673 5
	14970	27484	2.97		AU143277.1	EST_HUMAN	EST_HUMAN AU143277 Y78AA1 Homo septiens cDNA clone Y79AA1001673 5
2470	14971	27485	31.4	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987955 5

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Single Exon Probes Expressed in Lung	Top Hit Descriptor	601105312F1 NIH_MGC_15 Homo sepiens cDNA clone IMAGE:2987855 5'	7q27h12.x1 NCI_CGAP_GC9 Homo septens cDNA clone IMAGE: 3' similar to TR: 000246 000246 HYPOTHETICAL 9.3 KD PROTEIN;	Homo sapiens adlican mRNA, complete cds	801173831F1 NIH_MGC_17 Homo sepiens cDNA clone IMAGE:3529169 5'	Homo sapiens mRNA for KIAA1416 protein, partial cds	Hamo saplens mRNA for KIAA1415 protein, partial ods	UI-H-BW1-emp-f-12-0-UI.s1 NCI_CGAP_Sub7 Homo saplens cDNA done IMAGE:3070631 3'	602152853F1 NIH_MGC_81 Hamo sapiens cDNA clone IMAGE:4283812 5	601279873F1 NIH_MGC_39 Homo captens cDNA clone IMAGE:3621786 6'	601869073F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:4111411 5	601869073F1 NIH_MGC_17 Hamo sapiens cDNA clone IMAGE:4111411 5'	Homo sepiens mRNA for KIAA1321 protein, partial cds	In19b08x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gb:L20977 CALCIUM-TRANSPORTING ATPASE PI ASMA MEMBRANE BRAIN ISOFORM 2' (HI IMAN):	Homo saplens TATA box binding protein (TBP) essociated factor. RNA polymenase II. 1. 28xD (TAF2))	mRNA	Homo sepiens mRNA for KIAA1438 protein, partial cds	601143722F1 NIH_MGC_15 Home sapiens cDNA clone IMAGE:3051389 6'	601584930F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3939222 5'	Homo sapiens mRNA for KIAA0903 protein, partial cds	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA	Homo sapiens titin (TTN) mRNA	Homo septiens Bruton's tyrosine khase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein	Home saciens quanylate oxclass-ectivating protein 2 (GUCA1B) gene, exen 1	Homo saplens mRNA for KIAA0536 protein, partial cds	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001984 5'	Human bullous pemphigaid antigen (BPAG1) mRNA, complete ads	AU130403 NTZRP3 Homo sapiens cDNA clone NT2RP3000779 5'	AU130403 NTZRP3 Homo sapiens cDNA clone NTZRP3000779 5'	7h15h05.x1 NCI_CGAP_Co16 Homo saplens cDNA clane IMAGE:3316089 31	601298714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'	601278373F1 NIH_MGC_39 Hamo saplens cDNA clone IMAGE:3810267 5
gie Exon Pro	Top Hit Detabase Source	EST_HUMAN	EST HUMAN	LN TN	EST_HUMAN	N	LN FN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	N	EST HUMAN		L	IN	EST HUMAN	EST_HUMAN	NT	LN	TN	ΗN	L	TN	EST HUMAN		EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN
SID	Top Hit Acession No.	BE292896.1	BF223041.1	AF245505.1	BE296613.1	AB037836.1	AB037836.1	BF513835.1	BF672818.1	BE616695.1	BF204131.1	BF204131.1	AB037742.1	AI571737.1	,	5032150 NT	AB037859.1	BE293328.1	BE792472.1	AB020710.1	4504686 NT	4507720 NT	178027 4	AF173227.1	AB011108.1	AU133385.1		AU130403.1	AU130403.1	BF000018.1	BE383165.1	BE531263.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0,0=+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	00+100	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00		0.0E+00
	Expression Signal	31.4	4.27	6.7	1.25	15.7	15.7	1.78	0.99	19.64	1.48	1.48	12.55	15.77		4.04	4.25	3.62	4,31	1.44	5.18	2.33	2.13	4.9	2.1	1.75	1.88	4.54	4.54	1.22	5.73	1.89
	ORF SEQ ID NO:	27486	27487	27489	27517	86912	27539		27545		27552	27553	27556	27557				27683			27684			27594	27595					27610	27611	
	Exon SEQ ID NO:	14971	14972	14975	l_l	15271						15038	15040	15041							_!	15342	15077	15078	15081					١,	ı	15098
	Probe SEQ ID NO:	2470	2471	2474	2505	2523	2523	2524	2530	2532	2538	2538	2542	2543		2544	2546	2549	2557	2559	2570	2576	2581	2582	2585	2588	2589	2592	2592	2598	2289	2600

Table 4

Top Hit Acession Detabase Source Sour							2	Single Exon Propes Expressed in Lung
16131 27643 8.29 0.0E+00 6922849 NT 16140 27651 6.23 0.0E+00 AA316732.1 NT 16168 13.71 0.0E+00 AA31673.1 EST HUMAN 16179 27777 1.69 0.0E+00 BE794884.1 EST HUMAN 16177 27888 2.4 0.0E+00 BE79687.1 NT 16178 27881 0.32 0.0E+00 BE79687.1 NT 16178 27881 0.32 0.0E+00 AF110783.1 NT 16189 27702 0.93 0.0E+00 BE796876.1 EST HUMAN 16189 27702 0.93 0.0E+00 BE714886 NT 16189 27702 0.93 0.0E+00 BE774486 NT 16189 27705 5.09 0.0E+00 BF774486 NT 16189 27701 2.13 0.0E+00 BF77486 NT 16180 27701 2.13 0.0E+00 BF77897.1		SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similer (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
15140 27551 6.23 0.0E+00 AA316723.1 NT 16188 2.37 0.0E+00 BA31623.1 EST HUMAN 16178 27786 2.2 0.0E+00 BE794884.1 EST HUMAN 16178 27788 2.4 0.0E+00 BE796384.1 EST HUMAN 16178 27788 2.2 0.0E+00 BA510783.1 NT 16178 27789 0.03 0.0E+00 BE796376.1 EST HUMAN 16189 27697 16.96 0.0E+00 BF806321 EST HUMAN 16189 27702 30.83 0.0E+00 BF806321 EST HUMAN 16189 27702 30.83 0.0E+00 BF806321 EST HUMAN 16189 27702 30.83 0.0E+00 BF806321 EST HUMAN 16180 27703 2.13 0.0E+00 BF806343.1 EST HUMAN 16180 27704 2.13 0.0E+00 BF923441 NT 16182 27771 5.08 0.0E+	2636	15131	27643	8.29	0.0E+00		TN.	Homo saplens hypothetical protein FLJ11052 (FLJ11052), mRNA
15.71 0.0E+00 AA316723.1 EST_HUMAN 16189 27877 1.88 0.0E+00 BE794884.1 EST_HUMAN 16178 27888 2.2 0.0E+00 BE794884.1 EST_HUMAN 16178 27888 2.4 0.0E+00 BE706283.1 NT 16178 27888 2.2 0.0E+00 BE70638.1 NT 16189 27691 0.03 0.0E+00 BE706376.1 EST_HUMAN 16189 27702 3.03 0.0E+00 BE706376.1 EST_HUMAN 16189 27702 3.03 0.0E+00 BE706373.1 EST_HUMAN 16180 27705 5.09 0.0E+00 BF06322.1 EST_HUMAN 16180 27705 5.09 0.0E+00 AF20040.1 TA7488 NT 16180 27704 5.08 0.0E+00 AF20040.1 TA7488 NT 16180 2771 5.08 0.0E+00 BF377897.1 EST_HUMAN 16180 27714 8.32 </td <td>2647</td> <td>15140</td> <td></td> <td>5.23</td> <td>0.0E+00</td> <td>AB037732.1</td> <td>Į.</td> <td>Homo saplens mRNA for KIAA1311 protein, partial cds</td>	2647	15140		5.23	0.0E+00	AB037732.1	Į.	Homo saplens mRNA for KIAA1311 protein, partial cds
16169 27677 1.68 0.0E+00 BE794884.1 EST_HUMAN 16176 27886 2.2 0.0E+00 U38263.1 NT 16176 27888 2.4 0.0E+00 AF110763.1 NT 16178 27889 9.32 0.0E+00 AF110763.1 NT 16180 27691 16.96 0.0E+00 BE786376.1 EST_HUMAN 16180 27702 30.83 0.0E+00 BE786376.1 EST_HUMAN 16180 27702 30.83 0.0E+00 BE786373.1 EST_HUMAN 16180 27702 30.83 0.0E+00 BF582441 NT 16180 27705 5.09 0.0E+00 BF37486 NT 16180 27706 5.09 0.0E+00 BF37441 NT 16180 2770 2.13 0.0E+00 AF590186.1 NT 16180 2771 5.08 0.0E+00 BF377897.1 EST_HUMAN 16180 27771 5.08 0.0E+00 <td>2875</td> <td>15168</td> <td></td> <td>13.71</td> <td>0.0E+00</td> <td>AA316723.1</td> <td>EST HUMAN</td> <td>EST189414 HCC cell line (matastasis to liver in mouse) II Homo sapiens cDNA 6' end similar to ribosomal protein L29</td>	2875	15168		13.71	0.0E+00	AA316723.1	EST HUMAN	EST189414 HCC cell line (matastasis to liver in mouse) II Homo sapiens cDNA 6' end similar to ribosomal protein L29
16176 27886 2.2 0.0E+00 U38253.1 NT 16177 27888 2.4 0.0E+00 7669617 NT 15178 27888 2.4 0.0E+00 7669617 NT 15180 27681 0.93 0.0E+00 BETB8376.1 EST_HUMAN 15180 27682 1.94 0.0E+00 BETB8376.1 EST_HUMAN 15180 27702 30.83 0.0E+00 BETB8373.1 EST_HUMAN 15181 27702 30.83 0.0E+00 BETA4486 NT 15180 27705 5.09 0.0E+00 BETA4486 NT 15181 27705 2.13 0.0E+00 BF374486 NT 15182 27705 2.13 0.0E+00 BF374416 NT 15182 27706 5.08 0.0E+00 BF37441 NT 15182 2771 5.08 0.0E+00 BF37486 NT 15183 27771 5.08 0.0E+00 BF377897.1 <td>2676</td> <td>15169</td> <td>27877</td> <td>1.68</td> <td>0.0E+00</td> <td>BE794884.1</td> <td>EST HUMAN</td> <td>601589625F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 6'</td>	2676	15169	27877	1.68	0.0E+00	BE794884.1	EST HUMAN	601589625F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 6'
15170 27888 2.4 0.0E+00 7669517 NT 15178 27689 9.32 0.0E+00 AF110763.1 NT 15180 27681 0.93 0.0E+00 BE76832.1 EST_HUMAN 15180 27697 16.96 0.0E+00 BE76832.1 EST_HUMAN 15180 27702 30.83 0.0E+00 BE768433.1 EST_HUMAN 15180 27702 30.83 0.0E+00 BF5060432.1 EST_HUMAN 15181 27705 5.08 0.0E+00 BF57447.1 EST_HUMAN 15182 27707 2.13 0.0E+00 BF37789.1 IST_HUMAN 15185 27704 114.66 0.0E+00 BF377897.1 EST_HUMAN 15186 2771 5.08 0.0E+00 BF377897.1 EST_HUMAN 15189 27771 8.32 0.0E+00 BF377897.1 EST_HUMAN 15203 27772 7.16 0.0E+00 BF377897.1 EST_HUMAN 15204 27772	2683	16175	27686	2.2	0.0E+00	U36253.1	Į.	Human beta-prime-adaptin (BAM22) gene, exon 5
15178 27889 9.32 0.0E+00 AP110763.1 NT 15180 27691 0.93 0.0E+00 BE78632.1 EST HUMAN 15180 27692 16.96 0.0E+00 BE78632.1 EST HUMAN 15186 27702 30.83 0.0E+00 BE78633.1 EST HUMAN 15189 27702 30.83 0.0E+00 BE7447.1 EST HUMAN 15191 27705 5.09 0.0E+00 BE7447.1 EST HUMAN 15192 27707 2.13 0.0E+00 BE7447.1 EST HUMAN 15193 27707 2.13 0.0E+00 BE377486 NT EST HUMAN 15194 27707 2.13 0.0E+00 BE377897.1 EST HUMAN 15195 2771 5.08 0.0E+00 BF377897.1 EST HUMAN 15196 2771 5.08 0.0E+00 BF377897.1 EST HUMAN 15203 2772 7.16 0.0E+00 BF377897.1 EST HUMAN 15204 2772 8.57 0.0E+00 BF37783.1 EST HUMAN 15216 2772 4.9 0.0E+00 BF377183.1	2685	15177	27688	2.4	0.0E+00	7669517	k	Homo sapiens neuregulin 1 (NRG1), transcript variant SMDF, mRNA
15180 27691 0.93 0.0E+00 BE7828.1 NT 15180 27697 16.96 0.0E+00 BE78326.1 EST_HUMAN 15186 27702 30.83 0.0E+00 BE78333.1 EST_HUMAN 15189 27702 30.83 0.0E+00 BE78433.1 EST_HUMAN 15189 27705 5.09 0.0E+00 BF374486 NT EST_HUMAN 15191 27706 5.09 0.0E+00 BF374486 NT EST_HUMAN 15192 27707 2.13 0.0E+00 BF377897.1 EST_HUMAN 15193 27709 1.2 0.0E+00 BF377897.1 EST_HUMAN 15196 27714 5.08 0.0E+00 BF377897.1 EST_HUMAN 15189 27774 8.32 0.0E+00 BF377897.1 EST_HUMAN 15203 27721 6.57 0.0E+00 BF377897.1 EST_HUMAN 15204 27721 8.32 0.0E+00 BF377897.1 EST_HUMAN 15205 27720 7.16 0.0E+00 BF37783.1 EST_HUMAN 15210 27721 8.57 0.0E+00 BF37713.1 EST_HUMAN 16224 27722 4.9 0.0E+00 BF37713.1 </td <td>2686</td> <td>15178</td> <td>27689</td> <td>9.32</td> <td>0.0E+00</td> <td></td> <td>L L</td> <td>Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds</td>	2686	15178	27689	9.32	0.0E+00		L L	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
16186 27697 16.96 0.0E+00 BE786376.1 EST_HUMAN 16186 27698 7.94 0.0E+00 BE683433.1 EST_HUMAN 16346 27702 30.83 0.0E+00 BE583433.1 EST_HUMAN 16189 27705 5.09 0.0E+00 5174486 NT 16191 27705 5.09 0.0E+00 5174486 NT 16192 27709 2.13 0.0E+00 892341 NT 16192 27709 2.13 0.0E+00 892341 NT 16192 27709 1.2 0.0E+00 892341 NT 16192 27709 1.13 0.0E+00 892341 NT 16193 27701 5.08 0.0E+00 892341 NT 16194 2771 5.08 0.0E+00 892341 NT 16195 2771 5.08 0.0E+00 892341 NT 16203 2771 5.08 0.0E+00 8727897	2688	15180		0.93	0.0E+00	AB051826.1	TN	Homo saplens hG28K mRNA for GTP-binding protein like 1, complete cds
15186 27696 7.94 0.0E+00 BF680632.1 EST HUMAN 15346 27702 30.83 0.0E+00 BE563433.1 EST HUMAN 15189 3.07 0.0E+00 BE563433.1 EST HUMAN 15191 27705 5.09 0.0E+00 BE563433.1 EST HUMAN 15191 27706 5.09 0.0E+00 BE374486 NT EST HUMAN 15192 27707 2.13 0.0E+00 BE323441 NT EST HUMAN 15193 27708 1.2 0.0E+00 BE37486.1 EST HUMAN 15194 27710 5.08 0.0E+00 BF377897.1 EST HUMAN 15195 27714 8.32 0.0E+00 BF377897.1 EST HUMAN 15203 27715 8.32 0.0E+00 BF377897.1 EST HUMAN 15204 27721 8.57 0.0E+00 BF377897.1 EST HUMAN 15205 27720 7.16 0.0E+00 BF37783.1 EST HUMAN 15216 27721 8.57 0.0E+00 BF37713.1 EST HUMAN 16224 27722 4.9 0.0E+00 BF37713.1 EST HUMAN 16230 27724 3.11 0.0E+00 BF37713.1 EST HUMAN	2694	15185		16.96	0.0E+00	BE796376.1	EST_HUMAN	801591991F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945983 5'
16346 27702 30.83 0.0E+00 BE563433.1 EST_HUMAN 16189 3.07 0.0E+00 AV721647.1 EST_HUMAN 16191 27705 5.09 0.0E+00 BT74486 NT 16192 27707 2.13 0.0E+00 BS23441 NT 16193 27708 2.13 0.0E+00 BS23441 NT 16194 27709 1.2 0.0E+00 BS23441 NT 16195 27709 1.2 0.0E+00 BS23441 NT 16196 27710 5.08 0.0E+00 BS23441 NT 16196 27711 5.08 0.0E+00 BS23441 NT 16196 27714 8.32 0.0E+00 BS23441 NT 16199 27714 8.32 0.0E+00 BS23441 NT 16199 27714 8.32 0.0E+00 BS23441 NT 16200 27714 8.32 0.0E+00 BS23441 NT 16200 27726 7.16 0.0E+00 BS237897.1 16201 27726 7.16 0.0E+00 BS237897.1 16201 27726 1.71 0.0E+00 BS23773.1 16224 27726 1.71 0.0E+00 BS23773.1 16230 27726 1.71 0.0E+00 BS234.1 16230 27760	2895	15186		7.94	0.0E+00	BF680632.1	EST_HUMAN	602155923F1 NIH_MGC_83 Homo saplens cDNA clone IMAGE:4297132 5'
16189 3.07 0.0E+00 AV721647.1 EST_HUMAN 16191 27705 5.09 0.0E+00 5174486 NT 16192 27707 2.13 0.0E+00 8923441 NT 16192 27708 2.13 0.0E+00 8923441 NT 16192 27708 2.13 0.0E+00 8923441 NT 16193 27709 1.2 0.0E+00 8923441 NT 16194 27709 1.14.66 0.0E+00 8923441 NT 16195 27771 5.08 0.0E+00 8923441 NT 16196 27771 5.08 0.0E+00 8923441 NT 16196 27771 5.08 0.0E+00 8923441 NT 16196 27771 8.32 0.0E+00 8923441 NT 16206 27720 7.16 0.0E+00 8977897.1 EST_HUMAN 16204 27721 8.57 0.0E+00 8F514110.1 EST_HUMAN <	2698	15346	27702	30.83	0.0E+00	BE563433.1	EST_HUMAN	601335485F1 NIH_MGC_39 Homo saplens cDNA clone IMAGE:3689564 6'
15191 27705 5.09 0.0E+00 5174486 NT 15191 27706 5.09 0.0E+00 5174486 NT 16192 27707 2.13 0.0E+00 8923441 NT 15182 27708 2.13 0.0E+00 8923441 NT 15183 27709 1.2 0.0E+00 AF290186.1 RT 15184 27771 5.08 0.0E+00 BF377897.1 EST HUMAN 15185 27771 5.08 0.0E+00 BF377897.1 EST HUMAN 15189 27771 8.32 0.0E+00 BF377897.1 EST HUMAN 15203 27720 7.16 0.0E+00 BF471983.1 EST HUMAN 15210 27721 8.57 0.0E+00 BF47193.1 EST HUMAN 15216 27726 1.71 0.0E+00 BF547193.1 EST HUMAN 16224 27726 1.71 0.0E+00 BF547193.1 EST HUMAN 16230 27724 4.9 0	2699	15189		3.07	0.0E+00		EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 6'
15191 27706 5.09 0.0E+00 5174486 NT 16192 27707 2.13 0.0E+00 8923441 NT 15192 27708 2.13 0.0E+00 8923441 NT 15194 77709 1.2 0.0E+00 AF290196.1 NT 15195 27710 5.08 0.0E+00 BF377897.1 EST HUMAN 15196 27771 5.08 0.0E+00 BF377897.1 EST HUMAN 15199 27771 8.32 0.0E+00 BF377897.1 EST HUMAN 15204 27775 8.32 0.0E+00 BF377897.1 EST HUMAN 15204 27720 7.16 0.0E+00 BE747193.1 EST HUMAN 15210 27726 1.71 0.0E+00 BF37713.1 EST HUMAN 16224 1.77 0.0E+00 BF637713.1 EST HUMAN 16224 1.71 0.0E+00 BF63201.2 NT 16224 27726 1.71 0.0E+00 BF63201.2 NT 1623	2701	15191	27705	5.09	0.0E+00	5174486	LN.	Homo saplens spermatogenesis associated PD1 (KIAA0757) mRNA
15192 27707 2.13 0.0E+00 8923441 NT 15192 27708 2.13 0.0E+00 8923441 NT 15193 27709 1.2 0.0E+00 AF290196.1 NT 15194 171,66 0.0E+00 AF290196.1 EST_HUMAN 15195 27710 5.08 0.0E+00 BF377897.1 EST_HUMAN 15199 27771 8.32 0.0E+00 BF377897.1 EST_HUMAN 15203 27775 8.32 0.0E+00 BF377897.1 EST_HUMAN 15204 27721 8.32 0.0E+00 BF477983.1 EST_HUMAN 15204 27726 1.71 0.0E+00 BF037713.1 EST_HUMAN 15210 27726 1.71 0.0E+00 BF5147193.1 EST_HUMAN 16224 1.71 0.0E+00 BF514710.1 EST_HUMAN 16224 0.97 0.0E+00 BF514110.1 EST_HUMAN 16230 27750 2.33 0.0E+00 BF677694.1	2701	15191	27706	60.9	0.0E+00	5174486	Į.	Homo saplens spermatogenesis associated PD1 (KIAA0797) mRNA
15192 27708 2.13 0.0E+00 8923441 NT 15193 27709 1.2 0.0E+00 AF290196.1 NT 15194 114.66 0.0E+00 AF290196.1 NT 15195 27710 5.08 0.0E+00 BF377897.1 EST_HUMAN 15196 27771 5.08 0.0E+00 BF377897.1 EST_HUMAN 15199 27771 8.32 0.0E+00 BF377897.1 EST_HUMAN 15203 27720 7.16 0.0E+00 BF477893.1 EST_HUMAN 15210 27720 7.16 0.0E+00 BF47793.1 EST_HUMAN 15210 27726 1.71 0.0E+00 BF637713.1 EST_HUMAN 16224 1.71 0.0E+00 BF637713.1 EST_HUMAN 16224 27726 1.71 0.0E+00 BF63763.1 EST_HUMAN 16224 27760 2.33 0.0E+00 BF677694.1 EST_HUMAN 16230 27760 2.33 0.0E+00 <	2702	16192	27707	2.13	0.0E+00		Ę	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
15183 27709 1.2 0.0E+00 AF290196.1 NT 15184 114.66 0.0E+00 AV651066.1 EST_HUMAN 15185 27710 5.08 0.0E+00 BF377897.1 EST_HUMAN 15189 27771 5.08 0.0E+00 BF377897.1 EST_HUMAN 15189 27771 8.32 0.0E+00 BF377897.1 EST_HUMAN 15203 27775 7.16 0.0E+00 BF377897.1 EST_HUMAN 15204 27721 6.57 0.0E+00 BF477183.1 EST_HUMAN 15210 27726 1.71 0.0E+00 BF037713.1 EST_HUMAN 16216 27726 1.71 0.0E+00 BF637713.1 EST_HUMAN 16224 1.71 0.0E+00 BF637713.1 EST_HUMAN 16224 0.97 0.0E+00 BF63201.2 NT 16224 27760 2.33 0.0E+00 BF63201.2 NT 16230 27760 2.33 0.0E+00 BF63201.2 RST_HUMAN 162340 27760 2.33 0.0E+00 BF63201.2 EST_HUMAN 162340	2702	15192	27708	2.13	0.0E+00		TN	Homo saplens hypothetical protein FLJ20477 (FLJ20477), mRNA
15194 114.66 0.0E+00 AV651066.1 EST_HUMAN 15185 27710 5.08 0.0E+00 BF377897.1 EST_HUMAN 15189 27714 8.32 0.0E+00 BF377897.1 EST_HUMAN 15189 27715 8.32 0.0E+00 A457963 NT EST_HUMAN 15203 27720 7.16 0.0E+00 A457963 NT EST_HUMAN 15204 27721 6.57 0.0E+00 BF747193.1 EST_HUMAN 15210 27722 0.0E+00 BF037713.1 EST_HUMAN 16217 27723 0.0E+00 BF037713.1 EST_HUMAN 16224 27724 0.0E+00 BF037713.1 EST_HUMAN 16225 27725 0.0E+00 BF04110.1 EST_HUMAN 16226 27720 0.0E+00 BF04110.1 EST_HUMAN 16227 3.11 0.0E+00 BF042088 NT 16230 27760 2.33 0.0E+00 A427622 NT 16240 27761 27754 14.69 0.0E+00 A725634.1 EST_HUMAN	2703	15183	27709	1.2	0.0E+00		LN L	Homo saplens hypertension-related calcium-regulated gene mRNA, complete cds
15185 27710 5.08 0.0E+00 BF377897.1 EST HUMAN 15189 27771 5.08 0.0E+00 BF377897.1 EST HUMAN 15189 27775 8.32 0.0E+00 A757863 NT EST HUMAN 15203 27720 7.16 0.0E+00 BF74193.1 EST HUMAN 15204 27721 8.57 0.0E+00 BF74193.1 EST HUMAN 15210 27728 1.71 0.0E+00 BF037713.1 EST HUMAN 16217 27728 1.7 0.0E+00 BF037713.1 EST HUMAN 16224 27721 4.9 0.0E+00 BF037713.1 EST HUMAN 16225 27726 1.7 0.0E+00 BF037713.1 EST HUMAN 16224 27724 3.11 0.0E+00 BF037410.1 EST HUMAN 16230 27760 2.33 0.0E+00 BF07894.1 EST HUMAN 16240 27761 14.69 0.0E+00 BF0726534.1 EST HUMAN 16240 27764 14.69 0.0E+00 A7726534.1 EST HUMAN	2704	15194		114.66	0.0E+00	AV651066.1	Г	AV651066 GLC Hamo saplens aDNA clone GLCCLD07 3'
15185 27711 5.08 0.0E+00 BF377897.1 EST_HUMAN 15189 27714 8.32 0.0E+00 4757863 NT 15189 27775 8.32 0.0E+00 4757863 NT 15203 27720 7.16 0.0E+00 BE747193.1 EST_HUMAN 15210 27721 6.57 0.0E+00 BF037713.1 EST_HUMAN 15216 27726 1.71 0.0E+00 BF037713.1 EST_HUMAN 16217 27732 4.9 0.0E+00 BF14130.1 EST_HUMAN 16224 27742 3.11 0.0E+00 BF514110.1 EST_HUMAN 16230 27760 2.33 0.0E+00 BF677694.1 EST_HUMAN 16230 27760 2.33 0.0E+00 BF677694.1 EST_HUMAN 16240 27763 14.69 0.0E+00 A727622 NT EST_HUMAN 16240 27764 14.69 0.0E+00 A7276234.1 EST_HUMAN	2705	15195	27710	5.08	0.0E+00			CM1-TN0141-250900-439-b08 TN0141 Hamo sapiens cDNA
15189 27714 8.32 0.0E+00 4757963 NT 15203 27725 7.16 0.0E+00 BE747193.1 EST_HUMAN 15204 27721 6.57 0.0E+00 BF747193.1 EST_HUMAN 15210 27728 1.71 0.0E+00 BF037713.1 EST_HUMAN 15216 27728 1.7 0.0E+00 BF037713.1 EST_HUMAN 16217 27732 4.9 0.0E+00 BF14110.1 EST_HUMAN 16224 27742 3.11 0.0E+00 BF67494.1 EST_HUMAN 16230 27742 3.11 0.0E+00 BF749320.2 NT 162340 27750 2.33 0.0E+00 A503080 NT 16240 27760 2.33 0.0E+00 A727622 NT 16240 27764 14.69 0.0E+00 A7276234.1 EST_HUMAN	2705	15195	27711	5.08	0.0E+00		Г	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
15189 27715 8.32 0.0E+00 4757963 NT 15203 27720 7.16 0.0E+00 BE747193.1 EST_HUMAN 15204 27721 6.57 0.0E+00 BF037713.1 EST_HUMAN 15210 27726 1.71 0.0E+00 BF037713.1 EST_HUMAN 16217 27732 4.9 0.0E+00 BF04110.1 EST_HUMAN 16224 27742 3.11 0.0E+00 BF674110.1 EST_HUMAN 16230 27774 3.11 0.0E+00 BF67694.1 EST_HUMAN 16230 27776 2.33 0.0E+00 BF677694.1 EST_HUMAN 16240 27776 2.33 0.0E+00 A727622 NT EST_HUMAN 16240 27764 14.69 0.0E+00 AV725634.1 EST_HUMAN	2709	15189	27714	. 8.32	0.0E+00	4757963	L	Homo saplens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
15203 27720 7.16 0.0E+00 BE747193.1 EST_HUMAN 15204 27721 6.57 0.0E+00 BF037713.1 EST_HUMAN 15210 27728 1.71 0.0E+00 BF037713.1 EST_HUMAN 15215 27732 4.9 0.0E+00 BF514110.1 EST_HUMAN 15224 27772 3.11 0.0E+00 BF514110.1 EST_HUMAN 15230 27742 3.11 0.0E+00 BF57694.1 EST_HUMAN 15240 27750 2.33 0.0E+00 A7725534.1 EST_HUMAN 15240 27754 14.69 0.0E+00 A7725534.1 EST_HUMAN 15240 27754 14.69 0.0E+00 A7725534.1 EST_HUMAN 15240 27754 14.69 0.0E+00 A7725534.1 EST_HUMAN 15240 27754 14.69 0.0E+00 A7725534.1 EST_HUMAN 15240 27754 14.69 0.0E+00 A7725534.1 EST_HUMAN 15240 27754 14.69 0.0E+00 A7725534.1 EST_HUMAN 15240 27754 27755 27754 27755 27754 27755 27754 27755 27754 27755 27754 27755 27755 27754 27755 27755 27754 27755 27755 27754 27755 2775	2709	15189	27715	8.32	0.0E+00	57963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
15204 27721 6.57 0.0E+00 N44974.1 EST_HUMAN 15210 27726 1.71 0.0E+00 BF037713.1 EST_HUMAN 15216 1.7 0.0E+00 BF037713.1 EST_HUMAN 16217 27732 4.9 0.0E+00 BF514110.1 EST_HUMAN 16224 2776 2.33 0.0E+00 BF677694.1 EST_HUMAN 16236 2776 2.33 0.0E+00 A772652.1 EST_HUMAN 16240 27763 14.69 0.0E+00 A7726534.1 EST_HUMAN 16240 27764 14.69 0.0E+00 A7726534.1 EST_HUMAN	2713	15203	27720	7.16	0.0E+00		EST_HUMAN	601580903F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3929472 5'
15210 27728 1.71 0.0E+00 BF037713.1 EST HUMAN 15216 1.7 0.0E+00 AL163201.2 NT 16224 2.7732 4.9 0.0E+00 BF514110.1 EST HUMAN 16224 0.97 0.0E+00 BF514110.1 EST HUMAN 16230 27742 3.11 0.0E+00 BF677694.1 EST HUMAN 16236 27750 2.33 0.0E+00 BF677694.1 EST HUMAN 15240 27754 14.69 0.0E+00 AV725634.1 EST HUMAN 16240 27754 14.69 0.0E+00 AV725634.1 EST HUMAN	2714	15204	27721	6.57	0.0E+00			yy35h10.r1 Soares melanccyte 2NbHM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR:A45773 A45773 kelch protein long form - fruit fiv.
15246 1.7 0.0E+00 AL163201.2 NT 16224 4.9 0.0E+00 BF514110.1 EST HUMAN 16224 0.97 0.0E+00 BF514110.1 EST HUMAN 16230 27742 3.11 0.0E+00 BF677694.1 EST HUMAN 15240 27750 2.33 0.0E+00 BF677694.1 EST HUMAN 15240 27754 14.69 0.0E+00 AV725534.1 EST HUMAN 16240 27754 14.69 0.0E+00 AV725534.1 EST HUMAN	2720	15210	27728	1.7.1	0.0E+00	BF037713.1	Т	601462038F1 NIH MGC 66 Homo sepiens cDNA clone IMAGE 3865497 6
16217 27732 4.9 0.0E+00 BF514110.1 EST HUMAN 16224 0.97 0.0E+00 A503098 NT A5240 BF677694.1 EST HUMAN 16236 27750 2.33 0.0E+00 BF677694.1 EST HUMAN 15240 27753 14.69 0.0E+00 A7725634.1 EST HUMAN 16240 27754 14.69 0.0E+00 A7725634.1 EST HUMAN	27.26	15216		1.7	0.0E+00	AL163201.2	Т	Homo saplens chromosome 21 segment HS21C001
15224 0.97 0.0E+00 4503098 NT 16230 27742 3.11 0.0E+00 BF677694.1 EST_HUMAN 16236 27750 2.33 0.0E+00 7427622 NT 15240 27753 14.69 0.0E+00 AV725534.1 EST_HUMAN 16240 27754 14.69 0.0E+00 AV725534.1 EST_HUMAN	2727	16217	27732	4.9	0.0E+00	BF514110.1	EST_HUMAN	UI-H-BW1-amw-e-07-0-UI.s1 NCI_CGAP_Sub7 Homo saplens cDNA clane IMAGE:3071340 3'
16230 27742 3.11 0.0E+00 BF677694.1 EST_HUMAN 16236 27750 2.33 0.0E+00 T427622 NT 15240 27753 14.69 0.0E+00 AV726534.1 EST_HUMAN 16240 27754 14.69 0.0E+00 AV726534.1 EST_HUMAN	2734	15224		0.97	0.0E+00		NT.	Homo sapiens chondrolitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
16236 27760 2.33 0.0E+00 7427622 NT 15240 27763 14.69 0.0E+00 AV725534.1 EST_HUMAN 16240 27754 14.69 0.0E+00 AV725534.1 EST_HUMAN	2740	15230		3.11	0.0E+00	BF67769	Г	602085579F1 NIH_MGC_83 Homo saplens cDNA clone IMAGE:4249915 5'
15240 27763 14.69 0.0E+00 AV725534.1 EST_HUMAN 15240 27754 14.69 0.0E+00 AV725534.1 EST_HUMAN	2746	15236		2.33	0.0E+00			Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
15240 27754 14.69 0.0E+00 AV725534.1 EST_HUMAN	2750	15240	27763	14.69	0.0E+00	AV725534.1		AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
	2750	15240	27754	14.69	0.0E+00	AV725534.1	П	AV725534 HTC Homo saplens cDNA clone HTCCCA03 5'

- 1		Т	Т	$\overline{}$	Т	т	Τ-	Т	Т	Т	T	1	T	Τ	т-	1	$\overline{}$	Т	Т	Ť	Т	T	т_	Т	Т	T	Т	Т	Т	14	14
	Top Hit Descriptor	H.sapiens mRNA for nuclear DNA helicase II	Homo sapiens protocadherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds	Homo saplens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	Homo sapiens eukaryotic transletion elongation factor 1 alpha 1 (EEF1A1) mRNA	Homo saplens serine/threconine kinase 9 (STK9) mRNA	DKFZp586G0621_r1 586 (synonym: hute1) Homo sapiens cDNA clone DKFZp586G0621	Homo sepiens KIAA0054 gene product, Helicass (KIAA0064), mRNA	Homo sapiens KIAA0054 gens product; Helicase (KIAA0054), mRNA	Home sapiens chandrollin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	QV2-BT0636-130400-138-h03 BT0636 Homo sepiens cDNA	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sepiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo saplens chromosome 21 segment HS21C006	Homo sapiens chromosome 21 segment HS21C006	296b11.s1 NCI_CGAP_GCB1 Homo sepiens cDNA clone IMAGE:683517.3' similar to contains Alu	Information, Home safety hair keratin evons 1 to 0	Home contains EakAA (FELLAA) and the contains and the con	Homo sapiens enjoyavatic translation elongation factor 1 sloke 1 (FEF1A1) mRNA	ZINC FINGER PROTEIN 132	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds	qg49f04.x1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:1838527.3' similar to SW:CB20 HUMAN P52288 20 KD NUCLEAR CAP BINDING PROTEIN	Homo sapiens mRNA for KIAA1287 protein, partial cds	Homo sapiens mRNA for KIAA1287 protein, partial cds	Homo saplens mRNA for KIAA1508 protein, partial cds	Homo sapiens mRNA for KIAA1508 protein, partial cds	Homo sepiens KIAA0100 gene product (KIAA0100), mRNA	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA	Homo sapiens myelokillymphold or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA	Homo sepiens myelokilymphold or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLL14) mRNA
6.	Top Hit Database Source	Į.	ZI.	N.	Į.	F	EST_HUMAN	F	Z	TA	EST_HUMAN	EST HUMAN	Į.	Į.	FN	FN	TOT LIBRAN	TO TOWN	10	LN LN	SWISSPROT	N	EST HUMAN	Ė	N.	Į.	LN.	FX	N N	N	TN
	Top Hit Acession No.	Y10658.1	AF152303.1	4503470 NT	4503470 NT	4507280 NT	AL047599.1	7661883 NT	7661883 NT	. 4503098 NT	BE081896.1	BE081896.1	6806918 NT	6806918 NT	AL163206.2	AL163206.2	A A 215670 1	T	4750270	4503470 NT	P52740	AF152338.1	A1209084.1	AB033093.1	AB033093.1	AB040941.1	AB040941.1	7651903	7681903 NT	5174574 NT	5174574 NT
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	00+300			0.0			0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	7.14	1.01	139.19	139.19	3.28	1.55	1.44	1.44	2.78	6.15	6.15	0.63	0.63	2.44	2.44	1.86	4.55	4 20	69.69	1.16	1.42	1.05	3.08	3.06	6.19	6.19	3.39	3.39	5.77	5.77
	ORF SEQ ID NO:			16772					27809		27811		27820			27826	77877		27836			27844	. 27848						27862	27863	27864
	Exon SEQ ID NO:	15376	15377	15378	15378						_ 1	15397				15405	15408	15412	15415	15418		15421	15429	15437	15437			ı	15440	15441	15441
	Probe SEQ ID NO:	2820	2821	2822	2822	2834	2837	2838	2838	2839	2841	2841	2846	2846	2849	2849	2850	2857	2860	2863	2865	2866	2874	2882	2882	2883	2883	2885	2885	2886	2886

	L		14000	<u>'</u>		
Exon ORF SEQ Expression (Top) Hit Top Hit NO: Signal BLASTE ID NO: Value	Most Similar Signal BLAST E Value		Top Hit	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
15445 27868 1.81 0.0E+00 BF110702.1	1.81 0.0E+00	0.0E+00	BF1107		EST_HUMAN	7n40d03.x1 NCI_CGAP_Lu24 Homo septens cDNA clone IMAGE:3587028 3' similar to TR:Q8VLN1 Q9VLN1 CG17293 PROTEIN.;
15445 27869 1.81 0.0E+00 BF110702.1	1.81 0.0E+00	0.0E+00	BF11070		EST_HUMAN	7n40d03.x1 NCI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE:3587028 3' similar to TR:Q8VLN1 Q9VLN1 CG17283 PROTEIN ;
	3.56			4505084 NT	2	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
27881 3.56 0.0E+00	3.56 0.0E+00	0.0E+00		4505084 NT	トフ	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
27886 2.17 0.0E+00	2.17 0.0E+00	0.0E+00	4	4758827 NT	5	Homo saplens neuredin III (NRXN3) mRNA
1.06 0.0E+00	1.06 0.0E+00	0.0E+00	X98494.1		NT	H.saplens mRNA for M phase phosphoprotein 10
27889 1.42 0.0E+00	1.42 0.0E+00	0.0E+00	AB033034.1		NT	Homo sapiens mRNA for KIAA1208 protein, partial cds
27891 10.6 0.0E+00	10.6 0.0E+00	0.0E+00	AF108275.1			Homo saplens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
1.24 0.0E+00	1.24 0.0E+00	0.0E+00	AI149880.1		T_HUMAN	qf43f09.x1 Soares_testis_NHT Homo septens cDNA clone IMAGE:1752809 31
27912 1.2 0.0E+00	1.2 0.0E+00	0.0E+00	AF281074.1		NT	Homo saplens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
Z7913 1.2 0.0E+00	1.2 0.0E+00	0.0E+00	AF281074.1		NT	Homo sapiens neuropilin 2 (NRP2) gane, complete cds, atternatively spliced
27914 2.77 0.0E+00 AB00488	2.77 0.0E+00 AB00488	0.0E+00 AB00488	AB004884.1		NT	Homo sapiens mRNA for PKU-alpha, partial cds
27922 1.48 0.0E+00	1.48 0.0E+00	0.0E+00	760	7682273 r	NT	Hamo saplens KIAA0737 gene product (KIAA0737), mRNA
27923 1.79 0.0E+00	1.79 0.0E+00	0.0E+00	229	6729766 NT	Ę	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
27924 1.79 0.0E+00	1.79 0.0E+00	0.0E+00	572	5729755 NT	F	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
Z7B35 0.7	0.7 0.0E+00	0.0E+00	AF114488.1		NT	Homo sapiens intersectin short Isoform (ITSN) mRNA, complete cds
27836 0.7 0.0E+00	0.7 0.0E+00	0.0E+00	AF114488.1		NT	Homo saplens Intersectin short isoform (ITSN) mRNA, complete cds
	0.7 0.0E+00	0.0E+00	Al.163246.2		NT	Homo sapiens chromosome 21 segment HS21C046
27956 1.04	1.04 0.0E+00	0.0E+00	M74099.1	Ĩ	L	Human displacement protein (CCAAT) mRNA
27863 0.66 0.0E+00	0.66 0.0E+00	0.0E+00	45	3882	F	Homo sapiens semenogelin I (SEMG1) mRNA
27967 0.72 0.0E+00	0.72 0.0E+00	0.0E+00	AW976266.		EST_HUMAN	EST388375 MAGE resequences, MAGN Homo sapiens cDNA
	4.15 0.0E+00	0.0E+00	AF195953.1		Į,	Homo saplens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
27976 87.23 0.0E+00	87.23 0.0E+00	0.0E+00	99	6579469 NT		Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
27976 87.23 0.0E+00	87.23 0.0E+00	0.0E+00	657	5579469 NT	5	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
	6.89 0.0€+00	0.0E+00	AL359403.1	Ī	IN	Isoform 2 of a novel human mRNA from chromosome 22
15569 27981 2.84 0.0E+00 AF017433.1	2.84 0.0E+00	00+30'0	AF017433.1	Ī	L	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
·					•	Homo saplens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein,
16572 2.45 0.0E+00 AF196779.1	0.0E+00	0.0E+00	AF196779.1		L L	JMI IV protein, A4 ameremusion-dependent protein, unbie Lim domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a>
15593 28005 7.57 0.0E+00 X03529.1	7.57 0.0E+00	0.0E+00	X03529.1	Ĺ	Ę	Human germline gene 16.1 for lg lambda L-chain C region (lgL-C16.1)
1.6 0.0Ё+00	1.6 0.0E+00	0.0E+00	AF199355		TN	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
15602 28012 1.47 0.0E+00 AF064589.1	1.47 0.0E+00	0.0E+00	AF06458		TN	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds

	Т	Т	Т	Т	Т	T	Т	Т	τ	Т	Т	T	Т	T	Т	Т	Т	T	T	Т	Т	Т	T	Т	Т	Т	t-m		Г
Top Hit Descriptor	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds	Homo saplens NOD1 protein (NOD1) gene, excurs 1, 2, and 3	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds	Homo saplens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA	Human ferritin heavy chain mRNA, complete cds	Homo saplens mRNA for KIAA0549 protein, partial cds	Homo sapiens mRNA for KIAA0549 protein, partial cds	ye32f03.s.1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:119453 3' similar to SP:S29539 S29539 S29539 BASIC PROTEIN, 23K - :	801878507F1 NIH MGC_55 Homo saplens cDNA clone IMAGE:4107433 5'	H.saplens mRNA for gamma-glutamytransferase	H.saplens mRNA for gamma-glutamytransferase	tu39g09-x1 NCI_CGAP_P728 Homo expiens cDNA done IMAGE:2263376 3' similar to SW:RASD_DICDI P03967 RAS-LIKE PROTEIN RASD:	Homo saplens neurezin III (NRXN3) mRNA	Homo saplens neurexin III (NRXN3) mRNA	Homo saplens Interleukin 1 receptor, type I (IL1R1) mRNA	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cols	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A8), nuclear gene encoding mitochondrial protein. mRNA	Hamo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA	Homo sapiens CREB binding protein (Rubinstein-Taylai syndrome) (CREBBP) mRNA	ae87b11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971133 3'	Homo sapiens angiostatin binding protein 1 mRNA, complete cds	Homo sapiens anglostatin binding protein 1 mRNA, complete cds	Homo saplens fibrillin 1 (Marfan syndrome) (FBN1) mRNA	Homo sapiens titin (TTN) mRNA	Human connexin 43 processed pseudogene	Homo saplens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21. hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SK(2W), RD, complement factor B	(B1), and complement component C2 (C2) genes,>	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
Top Hit Database Source	N	R	NT	NT.	Ł	L	LN	IN	EST HUMAN	EST HUMAN	LΝ	LN	EST HUMAN	Z	LN	Z	NT	TN	L	Z	EST_HUMAN	Z FZ	LN LN	PA	IN	ΙN		Į.	Į,
Top Hit Acession No.	AF266208.1	4F149773.1	7662139 NT	AF042076.1	4826783 NT	20941.1	0.0E+00 AB011121.1	0,0E+00 AB011121.1	194870.1	0.0E+00 BF243336.1			A(685950.1		4758827 NT	4504658 NT	M28699.1	4502088 NT	4768055 NT	4758055 NT	0.0E+00 AA774783.1	0.0E+00 AF288598.1	AF286598.1	4557590 NT	4507720 NT	M65189.1		0.0E+00/AF019413.1	0.0E+00 AF055084.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00	0.05+00	100+30.0	0.0E+00	0.0E+00	0.0E+00 7	0.0E+00	0.0E+00 X98922.1	0.0E+00 X98922.1	0.0E+00 A	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 N	ZG. LG	0.0=+00,	0.0E+00
Expression Signal	3.26	6:38	4.24	1.36	2.84	52.59	1.65	1.65	22.34	1.15	7.81	7.81	0.85	1.49	1.49	12.29	3.08	3.21	0.8	0.8	92.56	7.75	7.75	1.63	0.98	7.43		1.08	5.04
ORF SEQ ID NO:				28034				28078			28110		28112				28148	28151			28161				28186			١	28196
Exan SEQ ID NO:	· 16621	15622	15627	15628	15654	15662	15665	15665	15672	15687	15692	16692	15693	16702	1		16728	15732	15738	15738	15740	15748	15748	15759	15766	15774	16778	0//01	157.8
Probe SEQ ID NO:	3067	3068	3073	3074	3101	3109	3112	3112	3119	3134	3139	3139	3140	3149	3149	3156	3176	3179	3185	3185	3187	3185	3185	3207	3214	3222	3333	3250	3226

Probe SEQ ID NO:	~ 60	ORF D	Express Signe	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3419	16963		2.62	0.0E+00	T657038 NT	. TN	Homo saplens death receptor 6 (DR6), mRNA
3420	15964		1.16	0.0E+00	5453965 NT	ΙΝΤ	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
3420	15964	28376	1.16	0.0E+00	5453965 NT	INT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
3423	15987	ORERC	508	JA OUTEU O	K02380 4	H.V	Bacteriophage P1 replication region including repA, perA, and parB genes and InoA, incB, and inoC incompetibility determinants
3425		1.	1 18		TA97599 NT	Z N	Homo captane profess travella shoenhatees reventor time T (DTDDT) mDNA
3428	1_				4557746INT	TN	Homo sapians met productionage (henstockte prowth factor receive) (MET) mRNA
3432	15976			0.0E+00 AI	935159	EST HUMAN	wp14d10.x1 NCL_CGAP_Lu19 Homo saptiens cDNA clone IMAGE:2484919 3' similar to TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE:
3432	15976	28390	4.63	0.0E+00 AI	A1935159.1	EST HUMAN	wp14d10.x1 NCI_CGAP_Lu19 Homo septens cDNA clone IMAGE:2484819 3' similær to TR:073834 073634 NEURAL CELL ADHESION MOLECULE.;
3436	15980	28395	3.72	0.0E+00	0.0E+00 AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
3442	15986	28403	36.33	0.0E+00	52332	NT	Homo sapiens wfos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3442		28404	SE.33	0.0E+00	6552332 NT	N	Homo saplens wfos FBJ murine osteosarcoma viral oncogane homolog (FOS), mRNA
3447			2.7	0.0E+00	0.0E+00 M14123.1	NT	Human endogenous retrovirus HERV-K10
3452			6.63	∩ 00+∃0′0	U43293.1	NT	Human MDS1A (AML1/MDS1 fusion) mRNA, partial cds
3457	_	28419	1.2		9558718 NT	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3457			12	0.0E+00	9558718 NT	NT	Homo saplens hypothetical protein (AF038169), mRNA
3461			4.47	0.0E+00	0.0E+00 AF045452.1	IN	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3461			4.47	0.0E+00		NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3469				0.0E+00		INT	Homo saplens chromosome 21 unknown mRNA
3475			1.96	0.0E+00		TN	Homo saplens hyperion gene, exons 1-50
3477			1.03	0.0E+00	0.0E+00 AA626677.1	EST_HUMAN	ab51f12.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844367 6'
3477			1.03		0.0E+00 AA626677.1	EST_HUMAN	ab51f12.r1 Strategene lung carcinoma 937218 Homo septens cDNA clone IMAGE:844367 5
3477	16020	28441	1.03		0.0E+00 AA626677.1	EST_HUMAN	ab51112.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844367 5'
3480	16023	28444	1.18	0.05+00	TN 8208028	TN.	Homo saplens zinc fincer protein 45 (a Kruppet-associated box (KRAB) domein polymentide) (ZNF45) mRNA
3484		28448				EST HUMAN	601143853F1 NIH MGC 15 Homo saplens cDNA clone IMAGE:3051373 5'
3484			3.67	0.0E+00		EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5
3487		28452	6.0	0.05+00	4826795 NT	N	Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNE2) mRNA
3490	16033		1.13	0.0E+00 O14867	ł. I	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
3494			1.01	0.0E+00 AI	384007.1	EST HUMAN	te35g12.x1 Soares, NhHMPu, S1 Homo sepiens cDNA clone iMAGE:2088742.3' similar to TR:000498 000498 MYASTHENIA GRAVIS AUTOANTICEN GRAVIN:
3487	16040	28461	2.19		10976.1	Т	Human endogenous retroviral DNA (4-1), complete retroviral segment

Table 4
Single Exon Probes Expressed in Lung

Single Exoll Plobes Expressed in Lung	Top Hit Database Top Hit Descriptor Source	T HUMAN 2289h04.1 Seares NHMPU S1 Home sapiens cDNA clame IMAGE-811927 5:	Г	Т	Т									7	╗	T_HUMAN QV0-CT0225-Z30300-169-e01 CT0225 Homo sapiens cDNA	Г		Г	1	1	Т	THIMAN 602152486F1NIH MGC 81 Home caplens colvid done liwa cell done la conserve el		Γ	Т	Г	Homo saplens KIAA0806 gene product (KIAA0808). mRNA	Homo septiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA	Homo sapiens midline 1 (Opitz/BBB swidrame) (MID1) mRNA		Homo septens gliveraldehivde-3-phosphete dehivdrocensse (GAPD) mRNA	Homo sepiens WAVE2 mRNA for WASP-family profein complete see
Single Exoll Plobes	Top Hit Acession Detabase No. Source	AA456282.1 EST HUMAN 2089	Г	L	EST HUMAN	36884 NT	AF078868.1 NT Homo	IN	Į.	23087 NT				HOMAN	5463 NT	AW852217.1 EST_HUMAN QVO-	4294 NT	AF118846.1 NT Homo	BF676393.1 EST_HUMAN 60208	1	NEW TOOL	EST LINAN	EST HIMAN	28967 NT	4W664893.1 EST HUMAN hi84g	EST HUMAN	3763 NT	7662319 NT Homo		4557752 NT Homo	N	7669491 NT Homo	B026542.1 NT Home
	Most Similar (Top) Hit BLASTE	0.0E+00 AA45	0.0E+00 AA45	_	_	0.0E+00	0.0E+00 AF07	0.0E+00	0.0E+00 AB04		0.0E+00	0.0E+00	—	_	_	_	0.0E+00	0.0E+00	0.0E+00	8044 00+30 0	`	4=		0.0E+00	0.0E+00 AW66		0.0E+00	0.0E+00	١,	0.0E+00	0.0E+00 D87327.1	0.0E+00	0.0E+00 AB026
	Expression Signal	0.67	0.67			72.0	1.71		1	0.91	1.36	1.36	7.20			5.28		0.94	9.2	1 44	78.0			1.15	8.0	9.0	. 1.25	1.08			2.56	6.76	9.4
	ORF SEQ ID NO:	28479	28480		28489	28480			28501	28512		28521			78024		28535		28538		28551										28593		28612
	SEQ ID NO:	16058	16058	16085	16067		16071		16082		16106	16106	48407	⊥				16123	16124	16129	L		L	16151			ı	- 1	J	J	ı	┙	16207
	Probe SEQ ID NO:	3515	3515	3522	3524	3526	3528	3537	3540	3553	3564	3564	25.0	2000) Pos	S S S S	3577	3581	3582	3587	3597	3610	3610	3611	3813	3613	3617	3619	3628	3628	3847	3650	3667

	F	1	т-	T-	Т	_	_	$\overline{}$	$\overline{}$	$\overline{}$	Ť	_	т	1.	_	τ	_	-	_	1	_	т	_	_	_	_	_	_	_		_
Single Exul Flores Explessed in Lung	Top Hit Descriptor	Homo saplens SH2-containing protein Nsp2 mRNA, complete cds	NHTBCae15g09f1 Normal Human Trabecular Bone Cells Homo saniens cDNA clone NHTBCae15c00	NHTBCaef 5009f1 Normal Human Trabecular Bons Calls Homo servions CDNA closes NHTBCaefee	Homo sabiens chromosome 21 segment HS21 C004	Homo saplens chromosome 21 segment HS21C004	MR2-CT0222-281099-005-605 CT0222 Homo sapiens cDNA	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24) mRNA	Homo saplens mRNA for KIAA0796 protein, partial ods	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)	Homo saplens mRNA for KIAA0910 protein, partial cds	Homo sapiens mRNA for KIAA0910 protein, partial cds	UI-H-BW0-gis-e-12-0-UI.st NCI CGAP Sub6 Hamo septens cDNA clone IMAGE-2733022 31	UI-H-BW0-ejs-e-12-0-UI:s1 NCI CGAP Sub6 Hamo sablens cDNA clone IMAGE:2733022 3'	Human gene for Type XIX collagen at chain, excn 6	aa08g01.r1 Soares_NhHMPu_S1 Homo sapiens cDNA done IMAGE:812496 5' shrilar to SW KRB4 SHFFP P02448 KFRATIN HIGH-SIII EIP MATRIY DECTEIN IIID 191	Homo sapiens mRNA for KIAA0003 morbin partial puls	Homo sablens similar to ret integral membrane obnounts in DOMA24 (DOMA24) 41 - DOMA	Homo saplens mRNA for KIAA1414 protein, partial cds	263007.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to obs.X66857 ods1 OLFACTORY RECEPTOR-1 IKF PROTEIN HOMBOYF (HI MAN).	Homo saplens KIAA0569 gene product (KIAA0569) mRNA	Homo saplens ribosomal protein S2 (RPS2) mRNA	Homo saplens soluble neuropilin-1 mRNA, complete ads	Homo saplens DNA mismatch repair protein (MLH3) gene, complete cals	Pan troglodytes olfactory receptor (PTR208) gene. partial cds	Homo sapiens similar to rat Integral membrane alvooprotein POM121 (POM1211) mRNA	Homo sapiens similar to rat Integral membrane alvoprotein POM121 (POM121L1), mRNA	Homo sapiens smooth muscle myosin heavy chain SM1 mRNA, alternatively soliced partial cds	Homo saplens RAB9, member RAS oncogene family (RAB9) mRNA	Mus musculus Junctophilin 1 (Jp1-pending), mRNA	Gorilla gorilla olfactory receptor (GGO71) gene, partial cds
JIE EXUIT PIO	Top Hit Database Source	N	EST_HUMAN	EST HUMAN	N	₽ F	EST HUMAN	N	N	SWISSPROT	N	Ä	EST HUMAN	EST HUMAN	NT	EST HUMAN	NT	<u> </u>	NT	EST HUMAN	Ϋ́	ŽĮ.	N	N	N	7	Ę	NT	Ę	Ļ	LN
	Top Hit Acession No.	F124250.1	A852743.1	A852743.1	L163204.2	L163204.2	W851714.1	5729928	39.1		0.0E+00 AB020717.1		Γ	0.0E+00 AW298134.1		0.0E+00 AA463659.1	T	7468	0.0E+00 AB037835.1	AA042813.1	27183	4506718 NT	F145712.1			7657468 NT	7657468 NT	0.0E+00 AF020091.1	4759011 NT	10181139 NT	F127851.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00 A	0.0E+00	0.0E+00 A	0.05+00 /	0.0E+00	0.0E+00	0.0E+00	0.0E+00 A	0.0E+00 O14867	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	4.07	4.08	4.08	1.48	1.48	1.03	2.14	1.68	1.33	0.64	9.0	5.84	5.84	1.16	1.15	0.79	7.84	0.99	1.04	69.69	42.7	1.29	0.72	2.5	1.59	1.59	1.35	1.34	-	1.05
	ORF SEQ ID NO:	28615	28623	28624	28626					28636			28646		28672	28673			28689	28695	28700	28703	28763		28765	28769	28770	28771	28776	28777	28779
	Exan SEQ ID NO:	16210	16216		16219		1				16229				16268		L		16285	16293	16289	16302	16364	١	- 1	ı	١	16371	16375	16376	16378
	Probe SEQ ID NO:	3670	3678	3678	3679	3679	3682	3684	3686	3688	3689	3689	3701	3701	3728	3729	3733	3736	3746	3764	3780	3763	3827	3829	3830	3833	3833	3834	3838	3839	3841

Single Exon Probes Expressed in Lung	Top Hit Descriptor	Gorilla gorilla olfactory receptor (GGO71) gene, partial ods	te62710.x1 Soares_NRL_T_GBC_S1 Homo saptens cDNA clone IMAGE:2091307 3'	Homo saplens protocadherin beta 3 (PCDH-beta3) mRNA, complete ods	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA	Homo saplens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene. complete cds	Homo saplens methyl CpG binding protein 2 (MECP2), mRNA	Hamo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo saplens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds	Homo saplens transient receptor potential channel 5 (TRPC5), mRNA	Homo saplens chromosoma X open reading frame 5 (CXORF5) mRNA	Homo saplens chromosome X open reading frame 5 (CXORF5) mRNA	Human zino finger protein ZNF134 mRNA, complete cds	Homo saplens intersectin short Isoform (ITSN) mRNA, complete cds	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11	Homo sapiens SC35-Interacting protein 1 (SRRP129), mRNA	Homo saplens amphiphysin gene, partial cds	wk01f01.x1 NCI_CGAP_Lym12 Homo saplens cDNA clone IMAGE:2411065 3' similar to TR:O43340 Q43340 R28830 2, contains element PTR7 repetitive element	Homo sapiens ribosomal protein S8 (RPS8), mRNA	DKFZp434N0413_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434N0413 5'	Hamo saplens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA	Homo sapiens glutamate receptor, metabotropic 3 (GRM3) mRNA	Homo saplens melanoma antigen, family B, 1 (MAGEB1) mRNA	Homo sapiens MBP17 heparin-binding and FGF-binding protein gene, complete cds	Homo saplens ryanodine receptor 3 (RYR3) mRNA	Homo sapiens zinc finger protein (KIAA0412) mRNA	RC3-HT0860-170800-011-a12 HT0860 Homo sapiens cDNA	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1999729 similar to MXRA5. Matrix remodeling associated gene 5
le Exon Probe	Top Hit Database Source	LN	EST_HUMAN K	I.		TN TN				H IN				H.	E E						4606742 NT	Г								EST_HUMAN R	EST_HUMAN N
Buis	Top Hit Acession No.	0.0E+00 AF127851.1	0.0E+00 AI377899.1	0.0E+00 AF152496.1	4768199 NT	S78685.1	7710148	7662183 NT	0.0E+00 AF069601.2 N	F069601.2	6912735 NT	4503178 NT	4503178 NT	J09412.1	0.0E+00 AF114488.1	4826783 NT	F012815.1	4759171	F099117.1	186472	-	0.0E+00 AL040338.1 E	6005887 NT	6005B87 NT	4504138 NT	4505078 NT	4F149412.1	4506758 NT	4585642 NT	F355295.1	0.0E+00 AW888221.1 E
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00 A	0.0E+00 A	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 B	0.0E+00
	Expression Signal	1.05	1.55	2.41	1.55	14.33	2.38	3.2	1.32	1.32	1.13	8.04	8.04	4.84	99.0	1.29	0.94	2.61	0.89	2.51	31.31	1.71	1.33	1.33	3.22	2.36	1.23	1.77	4.03	2.64	1.4
	ORF SEQ ID NO:		28781		28782	28783	28784			28787	28793	28799	.		28804	28806	28809	28810	28812	28822	28826				28842				28862		28874
	Exam SEQ ID NO:	16378	16379	1	16381							16396	16396	16398	16399	16402	١.	16408	16408	16418	16421	16426	16432	16432	16434	16435		H		16464	16466
	Probe SEQ ID NO:	3841	3842	3843	3844	3846	3847	3848	3850	3850	3856	3860	3860	3862	3863	3866	3869	3870	3872	3883	3886	3891	3897	3897	3899	3800	3904	3916	3920	3929	3931

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Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3931	18468	28875	1.4	00+30°0	AW888221.1	EST HUMAN	MXRA5 Human matrix tissue expression library Homo saplens cDNA clone Incyte 1996726 similar to MXRA5 Matrix remodeling associated gene 5
3937	16472	28881	2.4		AF129533.1	Į Į	Homo saplens F-box protein Fbl3b (FBL3B) mRNA, partial exis
3940	16475	28884	1.35	0.0E+00	U86281.1	NT	Homo saplens offactory receptor (OR7-141) gene, partial cds
3940	16475	28885	1.35	0.0E+00	U86281.1	Į.	Homo saplens offactory receptor (OR7-141) gene, partial cds
3945			4.73	0.0E+00	BE378602.1	EST HUMAN	601236968F1 NIH MGC 44 Homo sablens cDNA clone IMAGE:3608800 5
3953	1		0.94			EST HUMAN	PM3-LT0031-100100-003-h09 LT0031 Homo saplens cDNA
3954			1.08	0.0E+00	5360215 NT	N	Homo saplens iduronate 2-sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA
3986		28926	5.41	0.0E+00	AF116185.1	N	Homo saplens cancer-testis antigen CT10 (CT10) gene, complete cds
3989		28926	6.41	0.0E+00	AF116195.1	Į.	Homo saplens cancer-testis antipen CT10 (CT10) gene, complete cds
3999			5	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene. expn 2
4001	16535		6.73	0.0E+00	AL163303.2	¥	Homo saplens chromosome 21 segment HS21C103
4007			1.09		AL118494.1	NT	Novel human gene mapping to chomosome 20
4011			3.26		AL163284.2	۲	Hamo saplens chromosome 21 segment HS21C084
4019	16552	28949	1.69	0.0E+00	AL163268.2	NT	Homo saplens chromosome 21 segment HS21C068
4031	16564		100.63	0.0E+00	4503470 NT	N	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF141) mRNA
4036	16569		107	007300	A IRETOTO A	14074	tt55g08.x1 NOI_CGAP_GC6 Homo sepiens cDNA clone IMAGE:2244734 3' similar to TR:080309 060309
1000	1			1		ESI_FICMAIN	NEAVOS PRO JEIN.
ACO.			1.78	-1	7662183	L	Homo saplens KIAA0569 gene product (KIAA0569), mRNA
\$	_[28864	1.79		U09366.1	NT	Human zho finger protein ZNF133
4058	_		11.47	0.0E+00	AB015610.1	NT	Chlorocebus eethlops mRNA for ribosomal protein S4X, complete cds
4067	_		4.05	0.0E+00	AJ238617.1	LN	Homo saplens mRNA for UGA suppressor tRNA-associated antigenic protein (tRNA48 gene)
1981	┙	1	2.2	0.0E+00	AL163203.2	LN	Homo saplens chramosome 21 segment HS21 C003
4082			3.35	0.0E+00	AJ277276.1	N	Homo saplens mRNA for rapa-2 (rapa gene)
4082			3.35	0.0E+00	AJ277276.1	N	Homo saplens mRNA for rapa-2 (rapa gene)
4088		29007	11.37	0.0E+00	5032028 NT	N	Homo sapiens retinoblastome-binding protein 4 (RBBP4) mRNA
4088	16619	29008	11.37	0.0E+00	5032026 NT	TN	Hamo saplens retinoblastome-binding protein 4 (RBBP4) mRNA
							Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase.
4100	- (0.64	0.0E+00		TN	phosphoribosylaminoimidazole synthetase (GART) mRNA
4108	- 1		9.44	0.0E+00	4885306 NT	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4107	_1		1.98		AB006625.1	IN	Homo saplens mRNA for KIAA0287 gene, partial cds
4110	_1		0.85		4768807 NT	N.	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4111	_1		68.6		11419297	N-	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4112	16642	28028	3.12	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

Top Hit Descriptor	Homo saplens chromosome 21 segment HS21C103	Homo sapiens T-cell receptor gamma V1 gene region	Homo sapiens hyperion gene, exons 1-50	Human apolipoprotein B-100 mRNA, complete ods	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	PM2-DTT023-080300-004-008 DT0023 Hrms sanlone - DNA	601464995F1 NIH MGC 67 Homo saplens cDNA clone IMAGE:3868246 5'	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA	Homo sapiens F-box protein Fbl4 (FBL4) mRNA, partial cds	qd23f06.x1 Soares_placenta_8tx9weeks_2NbHP8tx9W Homo sepiens cDNA clone IMAGE:1724579.3' similar to contains MER20.b2 MER20 repetitive element:	Human CBFA3 (Cbfa3) gene, partial cds	Homo saplens myeloid/lymphoid or mixed-lineage laukemia (trithorax (Drosophila) homolog), translocated to, 4 (MILT4) mRNA	Homo sapiens protein kinase C, nu (PRKCN), mRNA	Homo saplens protein kinase C, nu (PRKCN), mRNA	Human G2 protein mRNA, partial cds	Human G2 protein mRNA, partial cds	Homo sapiens COMPLEMENT COMPONENT C19 RECEPTOR (C1QR), mRNA	Homo saplens gap junction protein connextn-38 (CX38) gene, complete cds	Human Ig light chain VL1 region germline (humiv1c2o) gene, partial cds	Homo saplens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative spilce products, partial cds	H.saplens H2B/h gene	H.sapiens H2Bh gene	xg88e10.x1 NCI_CGAP_U44 Homo sapiens cDNA clone IMAGE:2633514 3' similar to TR:P97365 P97365 ZINC FINGER PROTEIN 64;	H.sapiens H4id gene for H4 histone	H. saplens H4/d gene for H4 histone	Homo saplens KIAA0390 gene product (KIAA0390), mRNA
Top Hit Database Source		T T			± 0		T HI IMANI	HUMAN				EST HUMAN S	Т					TN TN		N T		± 0			EST HUMAN Z	Г	IN	
Top Hit Acession No.		-057177.1			0.0E+00 AB026898.1				26827	4826827 NT	F174590.1	189844.1		5174574 NT	6563384 NT	6563384 NT	10991.1	10991.1	6912281 NT	.2		4561.1			0.0E+00 AW166933.1			7662091 NT
Most Similar (Top) Hit BLAST E Vatue	0.0E+00 AI	0.05+00	0.05+00	0.0E+00	0.05	00190	001100	0.0E+00	0.0E+00	0.0E+00	0.0E+00 A	0.0E+00 A	0.0E+00 U14520.1	0.00	0.0E+00	0.0E+00	0.0E+00 U	0.0E+00 U	0.0E+00	0.0E+00/	0.0E+00 U03901.1	0.0E+00 L1	0.0E+00	0.0E+00 Z80780.1	0.0E+00	0.0E+00 X60483.1	0.0E+00	0.0E+00
Expression Signal	0.82	1.05	1.03	4.74	1.01	-	70 0	1.45	1.07	1.07	3.75	2.65	4.85	0.95	1.05	1.05	76.0	76.0	14.08	1.02	12.33	4.76	4.29	4.29	2.89	1.05	1.05	16.6
ORF SEQ ID NO:		29158	29183		. 29203	29204	29218	28286	29225		29228			29238	29253			29261	29268		29291	29298		29304	29305		28312	29318
Exan SEQ ID NO:	16771			16815	16820	·	16820	15867	16836	16836	16838	16845	16848	16852	16869			16876	16885	16904	16908	16914	ı	16918	16919	16925		16929
Prabe SEQ ID NO:	4248	4247	4275	4290	4295	4295	4304	4309	4312	4312	4314	4322	4326	4330	4347	4347	4354	4354	4363	4382	4386	4392	4396	4396	4397	4403	4403	4408

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4408		29319	9.97	0.0E+00	7662091 NT	NT	Homo saplens KIAA0390 gene product (KIAA0390), mRNA
4418	16939	29330	4.97	00+30'0	X82338.1	IN.	Homo sapiens Menkes disease gene, exon 4
4421		29334	16.36		4885126 NT	N _T	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA.
4422		28335	1.14		AJ271736.1	¥	Homo sapiens Xq pseudoautosomal region; segment 2/2
4423			1.02	0.0E+00	AL163207.2	TN	Homo sapiens chromosome 21 segment HS21 C007
4426		29337	1.15	0.0E+00	AB037781.1	NT.	Homo sapiens mRNA for KIAA1360 protein, partial cds
4462		28368	3.41	00+30 [°] 0	_	Į.	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4472			7.21	00+∃0′0	AF195953.1	IN	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4478	16998	29379	1.51	00+30'0	_	Į.	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4478		29380	1.61	0.0E+00	AJ249765.1	IN	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4482		28386	0.73	0.0E+00	W26179.1	EST_HUMAN	2497 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4482		29387	0.73	00+30 ⁰	W26179.1	EST HUMAN	24g7 Human retina cDNA randomly primed sublibrary Homo saplens cDNA
4602			2.33	0.0E+00	AF200629.1		Homo sapiens HPS1 gene, Intron 6
4523		29420	0.7	0.0E+00	T10233.1	EST HUMAN	seq1329 b4HB3MA Cot8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-FI205 5
4523		29421	0.7	0.05+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Cot8-HAP-Ft Homo saptens cDNA clone b4HB3MA-COT8-HAP-Ft205 6
4526	17044		0.62	0.0E+00	M14123.1	LΝ	Human endogenous retrovirus HERV-K10
4538	17056	29439	121.33		AW084964.1	EST HUMAN	xx88e08.x1 NCI_CGAP_Esc2 Homo septens cDNA ctone IMAGE:2589446 3' similar to SW.AHNK_HUMAN Q08988 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN ANNAK
4540	17987		3.98	0.0E+00		NT	Homo saplens LIM domain kinase 2 (LIMK2), transcript variant 2a. mRNA
4542	17059	29442	2.36		Alegebas	EST HIMAN	wc65b02.x1 NCI_CGAP_Pr28 Homo septens cDNA clone IMAGE:2322603 3' similar to contains MER22.b2 PTR5 repatitive element
75.40		1					Homo sapiens vascular endothelial cell growth factor 165 receptor/neuropilin (VEGF185) mRNA, complete
ARAR	17082	2	1.49	0.0E+00	AF016050.1	N	Ods
454R	L	20447	4 55	201200	AM/204E70.4	TOT LINAAN	Indino sapiens circuliuscine zi segment Noziouu/
4554	1	29454	2 41	001100		NT TOWN	Home contains mRNA for mithelian and of months applied a material (ADEA)
4554	1_	29455	241	0.05+00	A.1278120 1	±N	Home contains mBNA for whollies and rate containing protein (ODEs)
4558	L	29457	2.75	0.0E+00	AF108830.1	NT	Homo sapiens serine-threoning protein kinase (MNBH) mRNA complete cris
							Homo sapiens sialylitransferase 8 (alpha-N-acetylneuraminate: alpha-2,8-sialytransferase, GD3 synthase)
4561	_	29463	1.01	0.0E+00	_	NT	(SIAT8) mRNA
4566	_ [29469	1.19	0.0E+00	AF111163.1	IN	Homo saplens pyrin (MEFV) gene, complete cds
4686	ᆜ	29470	1.19	0.0E+00	AF111163.1	NT	Hano sapiens pyrin (MEFV) gene, complete cds
4575	_1	29479	3.71			NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4580	17096	29484	3.86	0.0E+00	AF208161.1	NT	Homo saplens syncytin precursor, mRNA, complete cds

		A, complete cds		F1A1) mRNA	³⁶) mRNA, and translated products	ated) (CSPG4), mRNA	MK4) mRNA	152127 5'	spo				s III region of the major histocompatibility		s III region of the major histocompatibility		ne IMAGE:609854 3'	nRNA		ы (MAGE:231721 3'	ne IMAGE:231721 3'	<u> </u>								enes		TNXA gene recombination breakpoint
Single Exon Propes Expressed in Lung	Top Hit Descriptor	Homo saplens protocadharin gamma C3 (PCDH-gamma-C3) mRNA, complete cds	Homo saplens zinc finger protein 211 (ZNF211), mRNA	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products	Homo sapiens chondrolitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA	801447932F1 NIH MGC 65 Homo sapiens cDNA clone IMAGE:3852127 5'	Homo sapiens iduronate sulphate sulphatase (IDS) gene, complete cds	Homo saplens KIAA0390 gene product (KIAA0390), mRNA	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA	Hamo saplens PTEN (PTEN) gene, exans 3 through 5	Homo saplens mRNA for G7c protein (G7c gane located in the class III region of the major histocompatibility	on interv	Homo saplens mRNA for G7c protein (G7c gene located in the class ill region of the major histocompatibility complex)	Homo sapiens DNA for emyloid precursor protein, complete ods	2018g08.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609854 3	Homo seplens odz (odd Oz/ten-m, Drosophila) homolog 1 (ODZ1), mRNA	Homo sapiens chromosome 21 segment HS21C084	y492b01.s1 Soares_pineal_gland_N3HPG Homo seplens cDNA done (MAGE:231721 3'	y92b01.s1 Soares_pineal_gland_N3HPG Homo sepiens cDNA done IMAGE:231721 3'	Homo sapiens cyclophilin-related protein (NKTR) gene, complete ods	Homo saplens chromosome 21 segment HS21C100	Homo sapiens gene for natriuretic protein, partial cds	Homo sapiens mRNA for KIAA0406 protein, partial cds	Novel human gene mapping to chamosome 1	Homo saplens keratin 18 (KRT18) mRNA	Homo sapiens keratin 18 (KRT18) mRNA	Mus musculus E-cadherin binding protein E7 mRNA, complete cds	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes	QV2-BT0635-160400-142-h05 BT0635 Homo saplens cDNA	Homo sapiens truncated tenascin XB (TNXB) gene, parital ods and TNXA gene recombination breakpoint region
JIE EXOLI PLOT	Top Hit Database Source	LX	N-	NT	L	N	NT.	EST HUMAN	N	F.	N	N	1		Į,	LN PN	EST HUMAN	LN	Ę	EST_HUMAN	EST_HUMAN	NT	TN	NT	LN	LN PA	NT	N	NT	N _T	EST_HUMAN	NT
Sillo	Top Hit Acession No.	4F162337.1	6454175 NT	4503470 NT	4505016 NT	4503098 NT	450256 NT	3E871908.1	35485.1	7662091 NT	7662091 NT	4F143314.1	1045418 4	1	AJ245418.1	J87675.1	4A174072.1	7657410 NT	AL163284.2	192741.1					AB007866.2	4L162331.1	4557887 NT	4557887 NT	4F167441.1	718890.1	3E081627.1	F086641.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	004	0.00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	3.54	1.34	44.89	0.77	1.3	1.09	1.1	3.79	12.38	12.38	4.37	13 83	3	13.83	0.64	1.45	2.33	1.76	1.39	1.39	4.61	4.97	1.8	1.08	2.03	7.63	7.63	1.36	10.38	3.09	1.86
	ORF SEQ ID NO:	29491	29495	29504	29509	29515	29518			29521	29522	29537	29540		29541					29568	29567	29568	29569		.29576	29579	29581	29582	29583	29601	29609	
	Exon SEQ ID NO:	17101	17104	17116	17124	17130	17133	17136	17139	17141	17141	17158	17461		17161	17171	17183	17186	17188	17189	17188	17190	17191	17192	17198	17201	17203	17203	17204	17219	17225	17230
	Probe SEQ ID NO:	4585	4588	4600	4608	4614	4617	4620	4623	4625	4825	4642	4645		4645	4655	4667	4670	4672	4673	4673	4874	4675	4878	4682	4685	4687	4687	4688	4703	4709	4714

Table 4
Single Exon Probes Expressed in Lung

		7	_	_	_	_	_					_		_		_	_		٠.	_		_	_					,_	_	_	
onigie Exon Proces Expressed in Lung	Top Hit Descriptor	Homo saplens partial TTN gene for tittn	Homo saplens famesy diphosphate synthase (famesyl pyrophosphate synthetase, dimethyellytranstransferase, geranytransferase) (FDPS) mRNA	Human mRNA for transcription factor AREB6, complete cds	Human mRNA for transcription factor AREB8, complete ods	Homo sapiens glypican 4 (GPC4) mRNA	Homo sapiens glypican 4 (GPC4) mRNA	Homo septens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	602072064F1 NCI CGAP Brn67 Homo septens cDNA clone IMAGE 4215039 5	602072064F1 NCI_CGAP_Bm87 Homo saplens cDNA clone IMAGE:4215039 5	Homo sepiens chromosome 21 segment HS21C084	UI-H-BI3-alvf-02-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068691 3'	H.saplens genes for semenogelin I and semenogelin II	H.saplens genes for semenogelin I and semenogelin II	Homo sapiens hypothetical protein FLJ1190 (FLJ1190), mRNA	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA	Human ribosomal protein L21 mRNA, complete cds	Human endogenous retroviral DNA (4-1), complete retroviral segment	601303729F1 NIH MGC 21 Hamo saplens cDNA clone IMAGE:3838118 5	Homo septens desmoplakin (DPI, DPII) (DSP) mRNA	Homo sapiens mRNA for KIAA1043 protein, partial cds	Homo saplens hypothetical protein FLJ20477 (FLJ20477), mRNA	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA	no14g08.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140 E239140 SPALT PROTEIN:	no14g09.s1 NCI_CGAP_Phe1 Homo saplens cDNA clone IMAGE:1100704 3' similar to TR:E239140 E239140 SPAI T PROTEIN	no14g09.s1 NCI_CGAP_Phe1 Homo saplens cDNA clone IMAGE:1100704 S' similar to TR:E239140	E239140 SPALT PROTEIN;	Homo saplens HSPC114 mRNA, complete cds	Homo saplens HSPC114 mRNA, complete ods	Homo saplens titin (TTN) mRNA	Homo saplens E6-AP ublquitin-protein ligase (UBE3A) gene, exon 3
ora Exori Pio	Top Hit Database Source	N.	Į.	N.	NT	١	Z	ļ Į	EST HUMAN	EST HUMAN	N	EST HUMAN	Z	N	N	LN P	N.	NT	EST HUMAN	E	N	Ę	N-	EST HUMAN	EST HUMAN		EST HUMAN	M	IN	LN	NT
	Top Hit Acesstan No.	AJ277892.1	4503684 NT	D16060.1	D15050.1	4504082 NT	4504082 NT	AB026898.1		BF630735.1	AL163284.2	AW452728.1	247556.1		8922926	4502398 NT	U14967.1	M10976.1	BE408863.1	4758189 NT	AB028966.1	8923441 NT	8923441 NT	AA601246.1	AA601246.1				AF161483.1	4507720 NT	AF016705.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	. 0.0E+00	0.0E+00				0.0E+00	0.0E+00	0.0E+00
	Expression Signal	4.6	2.1	2.58	2.58	0.93	0.93	•	0.98	0.98	1.46	1.58	1.29	1.29	1.78	0.91	6.87	1.15	3.17	3.14	76.0	1.92	1.92	0.75	0.75		0.75	1.8	1.8	66'0 .	1.89
	ORF SEQ ID NO:	29864	29875	29890			28900	28902			12862				96662			28957				29980		28993	29994		Ì	229996	Í		30020
	Exon SEQ ID NO:	17486	.17500	17517	1		17524	17528		17538	17550	17557	17560		1	17574		17589	17591			- 1	17618	17632	17632	l	- [_[- 1	- (17658
	Probe SEQ ID NO:	4976	4990	2005	6007	5014	5014	6018	6028	5028	5040	5047	5050	5050	5058	5064	5068	5079	5081	5086	5095	5110	5110	6126	5126		0120	5128	6128	6136	6154

Table 4
Single Exon Probes Expressed in Lung

Top Hit Descriptor	Homo sepiens MHC class 1 region	Homo saplens chromosome 21 segment HS21C009	Homo saplans gammma-cytoplasmic actin (ACTGP3) pseudogene	zn03g10.r1 Stratagene hNT neuron (#837233) Homo sapiens cDNA clone INAGE:546402 5'	zn03g10.r1 Stratagene hNT neuron (#637233) Homo sepiens cDNA clone IMAGE:546402 5	SCN1A=brain type I sodium channel alpha-subunit {!!!S5 transmembrane region} [human, placenta, Genomic, 1556 nt]	Bacillus amyloliquefaciens sacB gene for levansucrase (EC 2.4.1.10)	Homo sapiens vascular endothellal cadherin 2 mRNA, complete cds	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds	Homo saplens cyclophilin (USA-CYP) mRNA	ae92b04.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1020367 3'	Homo sapiens G-protein coupled receptor (RE2), mRNA	Homo sapiens HEF like Protein (HEFL), mRNA	Homo sapiens hypothetical protein (HS747E2A), mRNA	Human cellular fibronectin mRNA	Human cellular fibronectin mRNA	Human endogenous retrovirus-K, LTR U5 and gag gene	Homo sapiens solute carrier family 5 (Incelto transporters), member 3 (SLC5A3), mRNA	Homo sapiens 4F2 light chain (LOC51597), mRNA	Homo saplens 4F2 light chain (LOC51597), mRNA	Homo saplens corof UDP-galactose:N-acetylgalactosumine-alpha-R beta 1,3-galactosyltransferase (C1GALT1) mRNA, complete cds	Homo sapiens chromosome 8 open reading frame 1 (CBORF1) mRNA	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds	Homo sapiens chromosome 21 unknown mRNA	Homo saplens glypican 3 (GPC3) mRNA	wi52g05.x1 NCI_CGAP_Co18 Hamo saplens cDNA clone IMAGE:2393912.3	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete ods	Homo sapiens DNA polymerase zeta catalytio subunit (REV3) mRNA, complete cds	Homo sapiens KIAA0433 protein (KIAA0433), mRNA	Homo saplens mRNA for KIAA1513 protein, partial cds	H.saplens mRNA for YRRM2	qk80c01.x1 NCI_CGAP_Co8 Homo sapiens cDNA clone IMAGE:1873344 3'
Top Hit Database Source	H	I	E	EST_HUMAN Z	EST_HUMAN Z	<u>₹</u>			E E		1	H TN 0077700				H	Z Z				H)		I	E		T HUMAN	I L	E		H	Г	EST_HUMAN 0
Top Hit Acession No.	J53588.1	4L163209.2	J50657.1	4A084272.1	VA084272.1	S71446.1	(52988.1	4F240635.1		54153	4A683288.1	0022290	11421001 NT	7657193 NT	M10905.1		708032.1	5902091 NT	7706245 NT	7706245 NT	AF165582.1	4757889 NT	4F195658.1	VF231922.1	30213	A1831858.1	VF157476.1	4F157476.1		\B040946.1		AI285302.1
Most Similar (Top) Hit BLAST E Vatue	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00)	0.0E+00	0.0E+00		_	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00		0.0E+00 /
Expression Signal	1.23	1.62	44.86	1.08	1.08	12.5	3.35	6.58	5.58	1.14	1.02	0.94	1.05	86'0	2.17	2.17	0.76	0.73	0.93	0.93	1.46	1.91	1.73	0.69	2.07	1.1	1.44	1.44	0.99	1.31	1.53	2.17
ORF SEQ ID NO:	30024			30044	30045	30046	30085	30113	30114	30115					30156	30157				30189	30208	30209	30211	30216					30232		30250	30255
Exon SEQ ID NO:			17680	17685	17685	17686	17718	17746	17748						1	- 1	ľ	-		17830	17851	17852	17854	17858				. 1	1	17874	17893	17800
Probe SEQ ID NO:	5159	5171	6176	5181	5181	5182	5216	5245	5245	5246	5256	5267	5275	5279	5291	5291	2300	5318	5331	5331	5352	5353	6365	5360	5361	5368	5372	5372	5373	5376	5396	5404

					_												_	_							_	_	_	
Top Hit Descriptor	qdD4e04.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sepiens cDNA clone IMAGE:1722702 3* similar to SW:12D3_DROME P49849 TRANSCRIPTION INITIATION FACTOR TFIID 65 KD SUBUNIT:	Homo sapiens eosinophil peroxidase (EPP) gene, exon 7	ch88e09.75 NCI_CGAP_KI45 Home septens cDNA clone IMAGE:1472152 6' similar to gb:M18512 IG HEAVY CHAIN PRECURSOR V-I REGION (HUMAN);	Homo sapiens Sp4 transcription factor (SP4), mRNA	602118928F1 NIH MGC 66 Homo septens cDNA clone IMAGE:4276264 67	AU134406 OVARC1 Homo saplens cDNA clone OVARC1001894 5	AU134408 OVARC1 Hama sepiens cDNA done OVARC1001894 5	601061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'	801105891F1 NIH MGC 15 Homo saplens cDNA clane IMAGE:2988310 5'	802071372F1 NCI_CGAP_Brn64 Homo sepiens cDNA clone IMAGE:4214272 5	802071372F1 NCI_CGAP_Bm84 Homo saplens cDNA clane IMAGE:4214272 5	Homo saplens Bloom syndrome (BLM) mRNA	Homo sapiens mRNA for KIAA0466 protein, partial cds	Homo saplens mRNA for KIAA0488 protein, partial cds	Homo saplens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)	Human gene for dihydrolipoamide succinytransferase, complets cds (exon 1-15)	Homo sapiens offactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA	H. saplens mRNA for myosin	HUM418D05B Clontech human felal brain polyA+ mRNA (#5535) Homo saciens cDNA clone GEN-418D05	HUM418D05B Cloutsch human feld hrein poly&+ mRNA (#8535) Home serviens cDNA close CEN 418D06	פוני בייני ב	802042322F1 NCI_CGAP_Bm87 Homo saplens cDNA clone IMAGE:4179888 6'	602042322F1 NCI_CGAP_Bm67 Homo seplens cDNA clane IMAGE:4179988 5	601897658F1 NIH_MGC_19 Homo sapiens cDNA clane IMAGE:4126815 5	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA	wo95b02x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463051 3' similar to TR:075054 O75054 KIAA0466 PROTEIN;
Top Hit Database Source	EST HUMAN	NT	EST_HUMAN	LN.	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N	IN	N.	TN	N	N	NT	NT	NT	EST HIMAN	ALCHIOLIT TOTAL	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N.	EST_HUMAN
Top Hit Acession No.	A/189142.1	M29908.1	AI791363.1	11421038 NT	BF665962.1	I C	AU134406.1	BE538857.1	BE292784.1	BF626328.1	BF526328.1	4557384 NT	AB007935.1	AB007935.1	AF257737.1	AF257737.1	D26535.1	D26535.1	11420819 NT	738133.1	D81564 1		D81564.1	BF529931.1	BF529931.1	BF313139.1	11434392 NT	A1928181.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 B	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	00+400		0.0E+00	0.0E+00	0.0E+00 B	0.0E+00	0.0E+00	0.0E+00
Expression Signal	0.73	6.47	0.96	4.85	3.29	0.69	69.0	0.89	1.32	1.17	1.17	2.02	16.0	16.0	5.11	5.11	0.99	68.0	2.02	16:0	0.81		0.81	3.18	3.18	2.94	4.42	4.19
ORF SEQ ID NO:	30630		96908	30644					16908	20908	30698	32553		30726	30731			30749		30791	30815		30816		12808	30825	31033	31052
Exan SEQ ID NO:	18229	18233	18237	24590	18255				18271	18276	18276	19750	1				1	18315		18336	18356	L	18356		18359		18375	18391
Probe SEQ ID NO:	5642	5646	2660	999	5670	5671	5671	222	5686	5691	5691	5711	5714	5714	5719	5719	6733	5733	6749	5755	5775		5775	5778	5778	5783	5784	5811

		ŀ					
Probe E. SEQ ID SE NO: N	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5811	18391	31053	4.19	0.0E+00 A	AI928181.1	EST_HUMAN	wo85b02.xt NCI_CGAP_Ktd11 Homo seplens cDNA clone IMAGE:2463051 3' similar to TR:075054 075054 KIAA0466 PROTEIN ;
L		31076	1.25	0.0E+00	0.0E+00 BE260777.1	EST_HUMAN	601150252F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:3502609 5'
	18418		5.07	0.0E+00	0.0E+00 AW867316.1	EST_HUMAN	MR0-SN0037-030400-001-h07 SN0037 Homo saplens cDNA
	18433	31105	2.44	0.0E+00		EST_HUMAN	601105291F1 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2887903 5
5854 1	18433	31106	2.44	0.0E+00	0.0E+00 BE292889.1	EST_HUMAN	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'
		31128	1.94	0.0E+00	11420819 NT	NT	Homo sapiens offactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
	18454	31129	1.94		11420819 NT	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
	18462	31137	4.08			NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
	18462	31138	4.08	0.0E+00		TN	Horno sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5890 1	18469	31148	3.14	0.0E+00		IN.	Homo sapiens Surf-5 and Surf-6 genes
	18469	31149	3.14	0.0E+00	0.0E+00 AJ224639.1	N	Homo sapiens Surt-5 and Surt-6 genes
	18489	31180	0.72	0.0E+00	0.0E+00 AI198515.1	EST HUMAN	qf94g10.x1 Soares_placenta_8tb9weeks_ZNbHP8tb9W Homo sapiens cDNA clone IMAGE:1757730 3' similar to SW:CADC_HUMAN P55289 BRAIN-CADHERIN PRECURSOR;
5925 1	18503	31188	7.91	0.0E+00	0.0E+00 M85719.1	EST_HUMAN	EST02238 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCM48
		31185	3.94	0.0E+00	AW405472.1	EST_HUMAN	UI-HF-BL0-adh-d-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 51
		31205	1.3	0.0E+00	0.0E+00 Z26269.1	IN	H.saplens Isoform 1 gene for L-type calcium channel, exon 14 adnd 15
		31215	1.97	0.0E+00	0.0E+00 AW361877.1	EST HUMAN	PM3-CT0263-091299-007-h06 CT0283 Homo sapiens cDNA
	18533	31216	1.97		0.0E+00 AW361877.1	EST_HUMAN	PM3-CT0263-091289-007-h05 CT0283 Homo sapiens cDNA
L		31217	1.97		0.0E+00 AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
		31220	0.59		0.0E+00 AB035268.1	TN	Homo sapiens mRNA for neurexin II, complete cds
		31221	0.59		0.0E+00 AB035266.1	TN	Homo sapiens mRNA for neurexin II, complete cds
5982 1	18538	31224	1.92	0.0E+00	0.0E+00 U36261.1	IN	Human beta-prime-adaptin (BAM22) gene, exon 13
5997 1	18571	31257	1	0.0E+00	0.0E+00 AB046861.1	NT	Homo saplens mRNA for KIAA1641 protein, partial cds
6069	18631	31323	4.62	0.0E+00	0.0E+00 AA195905.1	EST_HUMAN	2985b11.1 Stratagene muscle 637209 Homo sepiens cDNA done IMAGE:627633 6' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
6060	18632	31324	1.7	0.0E+00	0.0E+00 AJ006345.1	Ę	Homo sapiens KVLQT1 gene
	18632	31325	1.7	0.0E+00	0.0E+00 AJ006345.1	LN	Homo saplens KVLQT1 gane
6069	18641	31337	1.3			EST_HUMAN	HA2981 Human fetal liver cDNA library Homo saplens cDNA
	18660	31354	4.98		11416801	본	Homo saplens protocadherin beta 2 (PCDHB2), mRNA
i	18665	31357	2.14	0.0E+00	E791173.1	EST_HUMAN	601684032F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3938551 5
	18675	31370	1.1		9898943 NT	NT	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
۱ ا	18676	31371	8:18		E990	EST_HUMAN	601345141F1 NIH_MGC_8 Home saplens cDNA clone IMAGE:3677843 5
6108	18677	31372	1.66	0.0E+00	10048478 NT	F	Mus musculus aczonin (Acz), mRNA

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6109	18678	31373	3.13	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
6109	18678	31374	3.13	0.0E+00	U86961.1	LΝ	Human L-type celcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
6129			2.52	0.0E+00 B	BF338835.1	EST_HUMAN	602036272F1 NCI_CGAP_Bm64 Homo septens cDNA clane IMAGE:4184321 5
6133			1.11	0.0E+00 AF	AF142621.1	NT	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds
6134	18703	31399	3.18	0.0E+00	BE273983.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 6'
6146	18714	31418			BE503096.1	EST_HUMAN	hz83d11.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3214581 3' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING;
6151			1.67	1	0.0E+00 BF569905.1	EST HUMAN	602185852F1 NIH_MGC_45 Hamo saplens cDNA clone IMAGE:4310076 6'
6156	1		0.91		0.0E+00 AA454642.1	EST_HUMAN	zx99d06.s1 Soares_NhHMPu_S1 Homo saplens cDNA done IMAGE.811883 3'
6192		31461	1.62		AF217289.1	INT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6194	18760	31463	5.2		BE828144.1	EST_HUMAN	RC5-ET0027-210600-022-G10 ET0027 Homo saplens cDNA
6188		31468	1.28		BE958636.1	EST_HUMAN	601645287F1 NIH_MGC_56 Homo saplens cDNA clone IMAGE:3930453 5'
6205	18771	31476	0.44	0.0E+00	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
6218	18784	31489	95.0		BE673986.1	EST_HUMAN	7d72e11.x1 NCI_CGAP_Lu24 Homo septens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN P51843 ORPHAN NUCLEAR RECEPTOR DAX-1. [1];
6218	18784	31490	95.0	0.0E+00	BE673986.1	EST_HUMAN	7d72e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similer to SW:DAX1_HUMAN P51843 ORPHAN NUCLEAR RECEPTOR DAX-1. [1];
6223	18789	31496			0.0E+00 AW276760.1	EST_HUMAN	xp85f03 x1 NCI_CGAP_Ox99 Homo saplens cDNA clone IMAGE:2745245 3' similar to TR:P78335 P78335 GUANYLATE KINASE ASSOCIATED PROTEIN.;
6235	18789				BF031742.1	EST_HUMAN	601558060F1 NIH_MGC_58 Homo saplens cDNA clone IMAGE:3827775 5
6235	18799	31511	0.91	0.0E+00 B	BF031742.1	EST_HUMAN	601558080F1 NIH_MGC_69 Homo septens cDNA clone IMAGE:3827776 6'
6247	18811	31528	92.0		0.0E+00 AW470848.1	EST HUMAN	ha34d08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2876595 3' similar to TR:Q9Z1N3 Q9Z1N3 MYOSIN-RHOGAP PROTEIN, MYR 7.;
6261		31538			BF155670.1	EST_HUMAN	QV4-HT0894-290900-399-e10 HT0894 Homo saplens cDNA
6261			1.05		BF155670.1	EST_HUMAN	QV4-HT0894-290900-389-a10 HT0894 Hamo saplens cDNA
6269		31646			W33069.1	EST_HUMAN	208h06.r1 Soares_parathyroid_tumor_NbHPA Homo saplens cDNA clone IMAGE:321765 5
6269				0.0E+00	W33069.1	EST_HUMAN	zz08h06.r1 Soares_parathyroid_turnor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5
6270					AF012618.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
6274						EST_HUMAN	601158515F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3505323 5'
6280	ŀ		2.4			EST_HUMAN	601512830F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3914238 51
6282	- {	31663			BE388673.1	EST_HUMAN	601286320F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3613085 5'
6297	18859		0.74	-1	0.0E+00 AW752848.1	EST_HUMAN	IL3-CT0220-111199-028-E04 CT0220 Hamo sapiens cDNA

Exon NO: 18861 ORF SEQ Signal 31563 Expression Flag Top Hit Acession Value No. 131563 Top Hit Acession 132 Top Hit Acession No. 1433071 18861 31563 1,32 0.0E+00 11433071 18862 31584 1,32 0.0E+00 11433071 18862 31584 1,16 0.0E+00 11433071 18862 31584 1,16 0.0E+00 BE901608.1 18862 31584 1,16 0.0E+00 BE901608.1 18862 31584 1,16 0.0E+00 BE901608.1 18863 31690 1,39 0.0E+00 BE901608.1 18904 31634 1,23 0.0E+00 BA183508.1 18903 31639 1,22 0.0E+00 BA183508.1 18904 31630 1,22 0.0E+00 BA183508.1 18903 31630 1,22 0.0E+00 BA183508.1 18903 31630 1,22 0.0E+00 BA183508.1 18903 31790 0.45 0.0E+00 <td< th=""><th></th><th></th><th></th><th></th><th></th><th>,</th><th></th><th></th></td<>						,		
18861 31583 1.32 0.0E+00 11433071 18862 31584 1.32 0.0E+00 BE901608.1 18862 31584 1.18 0.0E+00 BE901608.1 18862 31586 1.18 0.0E+00 BE901608.1 18862 31587 1.18 0.0E+00 BE901608.1 18880 31604 12.1 0.0E+00 BE901608.1 18880 31604 1.21 0.0E+00 BE901608.1 18890 31637 1.39 0.0E+00 BA183508.1 18903 31638 1.22 0.0E+00 DA183508.1 18903 31638 1.22 0.0E+00 DA183508.1 18943 31638 0.56 0.0E+00 DA1825.1 18963 31638 0.56 0.0E+00 DA183507.1 18963 31784 1.51 0.0E+00 DA187772.1 18065 31794 3.08 0.0E+00 DA187772.1 18076 31834 1.56 <td< td=""><td></td><td>Exan SEQ ID NO:</td><td>ORF SEQ ID NO:</td><td>· Expression Signal</td><td>Most Similar (Top) Hit BLAST E Value</td><td></td><td>Top Hit Database Source</td><td>Top Hit Descriptor</td></td<>		Exan SEQ ID NO:	ORF SEQ ID NO:	· Expression Signal	Most Similar (Top) Hit BLAST E Value		Top Hit Database Source	Top Hit Descriptor
18862 31584 1.32 0.0E+00 1143307 18862 31585 1.16 0.0E+00 BE901608.1 18862 31586 1.16 0.0E+00 BE901608.1 18862 31587 1.16 0.0E+00 BE901608.1 18880 31604 12.1 0.0E+00 BE901608.1 18880 31604 1.39 0.0E+00 BE901608.1 18890 31603 1.39 0.0E+00 BA183506.1 18901 31634 10.28 0.0E+00 DA183506.1 18903 31638 0.0E+00 DA183506.1 18903 31638 0.0E+00 DA183506.1 18943 31638 0.0E+00 DA18350.1 18963 31638 0.56 0.0E+00 DA18350.1 18963 31638 0.56 0.0E+00 DA183772.1 19006 31732 1.68 0.0E+00 DA183772.1 19026 31794 3.08 0.0E+00 DA18369.1	9300	18861	31583	1.32	0.0E+00		NT	Homo sapiens KIAA0735 gane product, synaptic vesicle protein 2B homolog (KIAA0735), mRNA
18862 31585 1.18 0.0E+00 BE901608.1 18862 31589 1.18 0.0E+00 BE901608.1 18862 31589 1.16 0.0E+00 BE901608.1 18860 31604 12.1 0.0E+00 BE901608.1 18880 31604 1.39 0.0E+00 BE901608.1 18880 31608 1.39 0.0E+00 BA183508.1 18901 31634 10.28 0.0E+00 DA1825.1 18903 31638 0.45 0.0E+00 DA1825.1 18943 31688 0.56 0.0E+00 DA1825.1 18963 31688 0.56 0.0E+00 DA1825.1 18963 31688 0.56 0.0E+00 DA1825.1 18963 31788 0.56 0.0E+00 DA187772.1 19000 31732 1.68 0.0E+00 DA187772.1 19025 31794 3.88 0.0E+00 DA187772.1 19056 31796 4.88 0.0E	6300	18861	31584	1.32	0.0E+00		¥	Homo saplens KIAA0735 gene product, synaptic vesicle protein 2B homolog (KIAA0735), mRNA
18862 31589 1.16 0.0E+00 BE901608.1 18862 31587 1.16 0.0E+00 BE901608.1 18880 31604 12.1 0.0E+00 BE901608.1 18880 31604 1.39 0.0E+00 BE901608.1 18880 31607 1.39 0.0E+00 AA183508.1 18901 31633 10.28 0.0E+00 AA183508.1 18903 31634 10.28 0.0E+00 AA183508.1 18903 31634 10.28 0.0E+00 AA183508.1 18903 31638 0.45 0.0E+00 AW85383.1 18963 31638 0.56 0.0E+00 AW85383.1 18963 31764 3.88 0.0E+00 AU437772.1 19006 31732 1.68 0.0E+00 AU437772.1 19026 31794 3.88 0.0E+00 AU437772.1 19056 31796 4.88 0.0E+00 AU437772.1 19056 3181 0.0E+00	6301	18862	31585	1.16	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3980200 5'
18862 31587 1.16 0.0E+00 BE901608.1 24608 31604 12.1 0.0E+00 BF901608.1 18880 31607 1.39 0.0E+00 AA183506.1 18801 31607 1.39 0.0E+00 AA183506.1 18901 31633 10.28 0.0E+00 U34625.1 18903 31634 10.28 0.0E+00 UA48258.1 18903 31636 0.45 0.0E+00 UA48258.1 18963 31688 0.56 0.0E+00 UA85383.1 18963 31688 0.56 0.0E+00 UA85383.1 18963 31788 0.56 0.0E+00 UA85383.1 18963 31788 0.56 0.0E+00 UA85383.1 18060 31732 1.68 0.0E+00 UA539107.1 19006 31734 3.88 0.0E+00 UA5892.1 19056 31796 4.88 0.0E+00 UA5892.1 19076 31817 0.63 0.0E+	6301	18862	31586	1.16	0.0E+00	BE901608.1	EST HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3980200 5'
24606 31604 12.1 0.0E+00 9789986 18880 31607 1.39 0.0E+00 AA198508.1 18880 31608 1.39 0.0E+00 AA198508.1 18901 31638 10.28 0.0E+00 Ja4625.1 18903 31634 10.28 0.0E+00 Ja4625.1 18903 31639 0.45 0.0E+00 Ja4625.1 18903 31639 0.45 0.0E+00 Ja4625.1 18903 31639 0.56 0.0E+00 Ja46256.1 18963 31698 0.56 0.0E+00 Ja46256.1 18963 31732 1.68 0.0E+00 Ja56107.1 19009 31732 1.68 0.0E+00 Ja57072.1 19026 31794 3.98 0.0E+00 Ja5802.1 19056 31796 4.88 0.0E+00 Ja5803.1 19076 31817 0.63 0.0E+00 Ja5803.1 19077 31839 0.0E+00 Ja5800.1 <td>ങ</td> <td>18862</td> <td>31587</td> <td>1.16</td> <td>0.0E+00</td> <td>BE901608.1</td> <td>EST_HUMAN</td> <td>601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3880200 5'</td>	ങ	18862	31587	1.16	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3880200 5'
18880 31607 1.39 0.0E+00 AA1983508.1 18880 31608 1.39 0.0E+00 AA1983508.1 18901 31638 10.28 0.0E+00 U34625.1 18903 31634 10.28 0.0E+00 U34625.1 18903 31636 0.45 0.0E+00 U34625.1 18963 31630 0.45 0.0E+00 AW853983.1 18963 31630 1.22 0.0E+00 AW853983.1 18963 31630 0.45 0.0E+00 AW853983.1 18963 31630 0.0E+00 AW853983.1 18963 31630 0.0E+00 AW853983.1 18963 31739 0.0E+00 AW85107.1 18027 31764 3.88 0.0E+00 AL13772.1 18056 31797 3.92 0.0E+00 AL1543913 18057 31817 0.63 0.0E+00 AL1543913 18087 31839 3.04 0.0E+00 AR204740.1	6317	24606		12.1	0.0E+00		N FN	Homo sapiens potassium voltage gated channel, Shaf-related subfamily, member 2 (KCND2), mRNA
1880 31608 1.38 0.0E+00 AA188508.1 18901 31633 10.28 0.0E+00 U34625.1 18901 31634 10.28 0.0E+00 U34625.1 18903 31636 0.45 0.0E+00 UA862583.1 18903 31637 0.45 0.0E+00 AW853983.1 18963 31680 1.14 0.0E+00 AW853983.1 18963 31680 1.14 0.0E+00 BE166561.1 18963 31680 0.0E+00 AU13772.1 19000 31732 1.68 0.0E+00 BE378907.1 19005 31794 3.88 0.0E+00 AU13772.1 19056 31794 3.82 0.0E+00 AU35772.1 19056 31797 3.92 0.0E+00 AU3582.1 19056 31797 3.92 0.0E+00 U7583.1 19078 31839 1.56 0.0E+00 U7583.1 19077 31839 0.0E+00 AU686048.1	6320	18880	31607	1.39	0.0E+00	1	EST_HUMAN	749h01.r1 Sogres JNHIMPU, S1 Homo sepiens cDNA clone IMAGE:063905 6' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.
18901 31633 10.28 0.0E+00 U34625.1 18903 31634 10.28 0.0E+00 U34625.1 18903 31636 0.45 0.0E+00 U34625.1 18903 31637 0.45 0.0E+00 UW853883.1 18943 31680 1.22 0.0E+00 US5830.1 18963 31688 1.14 0.0E+00 US5830.1 18000 31732 1.68 0.0E+00 US58007.1 18000 31732 1.68 0.0E+00 U45982.1 18027 31764 3.98 0.0E+00 U45982.1 18056 31797 3.92 0.0E+00 U45982.1 18056 31797 3.92 0.0E+00 U45982.1 18056 31817 0.63 0.0E+00 U45982.1 18058 31817 0.63 0.0E+00 U45982.1 18059 31817 0.63 0.0E+00 U7523.1 18083 31834 1.58 0.0E+00 U7523.1 18097 31839 0.0E+00 U7523.1 18117 31860 0.0E+00 U7523.1 18117 <td>6320</td> <td>18880</td> <td>31608</td> <td>1.39</td> <td>0.0E+00</td> <td></td> <td>EST HUMAN</td> <td>240h01.11 Sogres NhHMPU S1 Home saplens oDNA olone IMAGE:686806 6' similar to SW:YY05 HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.</td>	6320	18880	31608	1.39	0.0E+00		EST HUMAN	240h01.11 Sogres NhHMPU S1 Home saplens oDNA olone IMAGE:686806 6' similar to SW:YY05 HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.
18901 31634 10.28 0.0E+00 U34625.1 18903 31636 0.45 0.0E+00 AW853983.1 18903 31637 0.45 0.0E+00 AW853983.1 18943 31680 1.72 0.0E+00 BE76830.1 18963 31688 1.14 0.0E+00 BE76851.1 18060 31732 1.68 0.0E+00 BE76807.1 18000 31732 1.68 0.0E+00 BE78007.1 18027 31764 3.98 0.0E+00 BA204740.1 18056 31797 3.92 0.0E+00 BA204740.1 18056 31797 3.92 0.0E+00 BA204740.1 18058 31817 0.63 0.0E+00 BA204740.1 18083 31834 1.58 0.0E+00 BA204740.1 18083 31839 3.04 0.0E+00 BA204740.1 18081 31839 0.0E+00 BA204740.1 18083 31839 0.0E+00 BA204740.1 18084 0.0E+00 BA204740.1 18089 0.0E+00 BA204740.1 18080 0.0E+00 BA204740.1	6343	18901	31633	10.28	0.0E+00	U34625.1	M	Human T cell surface glycoprotein CD-6 mRNA, complete cds
18903 31636 0.45 0.0E+00 AW853983.1 18903 31637 0.45 0.0E+00 AW853983.1 18943 31688 1.14 0.0E+00 BE268330.1 18963 31688 1.14 0.0E+00 BE16561.1 18000 31732 1.68 0.0E+00 BE16561.1 18006 31734 1.51 0.0E+00 BA13772.1 18027 31764 3.98 0.0E+00 AA204740.1 18056 31797 3.92 0.0E+00 AA204740.1 18056 31798 3.92 0.0E+00 11545913 18078 31817 0.63 0.0E+00 17545913 18083 31834 1.58 0.0E+00 11245917 18097 31839 3.04 0.0E+00 BE257173.1 19113 31860 1.44 0.0E+00 AI686048.1	6343	18901	31634	10.28	0.0E+00	U34625.1	N P	Human T cell surface glycoprotein CD-6 mRNA, complete cds
18903 31637 0.45 0.0E+00 AW853983.1 18943 31680 1.22 0.0E+00 BE268330.1 18953 31688 1.14 0.0E+00 BE166561.1 19000 31732 1.68 0.0E+00 BE166561.1 19000 31734 1.51 0.0E+00 BE166561.1 19000 31735 1.68 0.0E+00 BA13772.1 19027 31764 3.98 0.0E+00 AA204740.1 19056 31796 4.88 0.0E+00 AA204740.1 19056 31798 3.92 0.0E+00 A1545913 19056 31817 0.63 0.0E+00 11545913 19076 31839 3.04 0.0E+00 11426397 19113 31860 1.44 0.0E+00 AI686048.1	6345	18903		0.45	0.0E+00	AW 853983.1	EST_HUMAN	RC3-CT0254-110300-027-e09 CT0254 Homo sapiens cDNA
18943 31680 1.22 0.0E+00 BE258330.1 18953 31688 1.14 0.0E+00 BE166561.1 18900 31732 1.68 0.0E+00 BE166561.1 19000 31739 1.51 0.0E+00 BE378007.1 19027 31764 3.98 0.0E+00 AU37772.1 19055 31796 4.88 0.0E+00 AU37772.1 19056 31797 3.92 0.0E+00 AA204740.1 19056 31798 3.92 0.0E+00 11545913 19076 31817 0.63 0.0E+00 11545913 19078 31839 3.04 0.0E+00 BE257173.1 19113 31800 1.44 0.0E+00 AI686048.1	6345	18903		0.45	0.0E+00	AW853983.1	EST_HUMAN	RC3-CT0254-110300-027-e09 CT0254 Homo sapiens cDNA
18953 31688 1.14 0.0E+00 BE168561.1 18963 31698 0.56 0.0E+00 MS8107.1 19000 31732 1.68 0.0E+00 BE378007.1 19000 31739 1.51 0.0E+00 AU13772.1 19027 31764 3.98 0.0E+00 IU5982.1 19056 31796 4.88 0.0E+00 IU5982.1 19056 31797 3.92 0.0E+00 IU545813 19076 31817 0.63 0.0E+00 U07223.1 19078 31839 1.56 0.0E+00 U07223.1 19077 31839 3.04 0.0E+00 BE257173.1 19113 31860 1.44 0.0E+00 AI686048.1	9386	18943		1.22	0.0E+00	BE258330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3365665 5'
18963 31698 0.56 0.0E+00 MS8107.1 19000 31732 1.68 0.0E+00 BE376007.1 19006 31739 1.51 0.0E+00 BE376007.1 19027 31764 3.98 0.0E+00 U45982.1 19056 31796 4.88 0.0E+00 U45982.1 19056 31797 3.92 0.0E+00 U45982.1 19056 31798 3.92 0.0E+00 U45982.1 19076 31817 0.63 0.0E+00 U7223.1 19078 31839 1.56 0.0E+00 U7223.1 19113 31839 3.04 0.0E+00 U7223.1 19117 31860 1.44 0.0E+00 U723.1	9629	18953	31688	1.14	0.0E+00	BE156561.1	EST_HUMAN	QV0-HT0368-090200-099-e09 HT0368 Homo sapiens cDNA
19000 31732 1.68 0.0E+00 BE378007.1 19006 31739 1.51 0.0E+00 AU137772.1 18027 31764 3.98 0.0E+00 U45982.1 19056 31796 4.88 0.0E+00 AA204740.1 19056 31797 3.92 0.0E+00 AA204740.1 19056 31798 3.92 0.0E+00 11545913 19076 31817 0.63 0.0E+00 11545913 19083 31839 3.04 0.0E+00 BE257173.1 19113 31800 1.44 0.0E+00 AI686048.1	6406	18963	31698	0.56	0.0E+00	M38107.1	L	Human neurofibromatosis type 1 (NF-1) mRNA, 3' end of cds
19006 31738 1,51 0.0E+00 AU137772.1 18027 31764 3.98 0.0E+00 U45982.1 18055 31796 4.88 0.0E+00 U45982.1 18056 31797 3.92 0.0E+00 U45982.1 18056 31798 3.92 0.0E+00 U7523.1 18076 31817 0.63 0.0E+00 U7223.1 18083 31839 1.58 0.0E+00 U7223.1 19113 31860 1.44 0.0E+00 U65048.1	444	19000	31732	1.68	0.0E+00	BE379007.1	EST_HUMAN	601236276F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3608490 5'
19027 31764 3.98 0.0E+00 U45982.1 19055 31796 4.88 0.0E+00 AA204740.1 19056 31797 3.92 0.0E+00 11545913 19056 31817 0.63 0.0E+00 11545913 19076 31834 1.56 0.0E+00 11426387 19077 31839 3.04 0.0E+00 BE257173.1 19113 31860 1.44 0.0E+00 AI686048.1	8 50	19006	31738	1.51	0.0E+00		EST_HUMAN	AU137772 PLACE1 Homo sapiens oDNA clone PLACE1007201 6
19055 31796 4.88 0.0E+00 AA204740.1 19056 31797 3.92 0.0E+00 11545913 19056 31798 3.92 0.0E+00 11545913 19076 31817 0.63 0.0E+00 107223.1 19083 31834 1.56 0.0E+00 11428367 19113 31860 1.44 0.0E+00 Al686048.1 1917 31860 1.44 0.0E+00 Al686048.1	6472	19027	31764	3.98	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-6 gene, complete cds
19056 31797 3.92 0.0E+00 11545913 19058 31798 3.92 0.0E+00 11545913 19078 31817 0.53 0.0E+00 11545913 18083 31834 1.56 0.0E+00 11428367 19173 31850 0.0E+00 Al686048.1 1917 31860 1.44 0.0E+00 L35930.1	6501	19055	31796	4.88	0.05+00	AA204740 1	FST HIMAN	2481403.r1 Strategene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648005 5' similar to
19056 31798 3.92 0.0E+00 11545913 19076 31817 0.63 0.0E+00 U07223.1 19083 31834 1.56 0.0E+00 U1428367 19097 31839 3.04 0.0E+00 BE257173.1 19113 0.8 0.0E+00 AIGB6048.1 1917 31860 1.44 0.0E+00 L35930.1	6502	19056	31797	3.92	0.0E+00	11545913	Ę	Homo saplens xylosyltransferase II (XT2), mRNA
19076 31817 0.63 0.0E+00 U07223.1 18083 31834 1.56 0.0E+00 U1428367 18097 31839 3.04 0.0E+00 BE257173.1 19113 0.8 0.0E+00 AIGB6048.1 1917 31860 1.44 0.0E+00 L35930.1	6502	19056	31798	3.92	0.0E+00	11545913	LN LN	Homo sapiens xylosyltransferase II (XT2), mRNA
18083 31834 1.56 0.0E+00 11428367 18097 31839 3.04 0.0E+00 BE257173.1 19113 0.8 0.0E+00 Al686048.1 19117 31860 1.44 0.0E+00 L35930.1	6523	19076		0.63	0.0E+00	U07223.1	N FN	Human beta2-chimaerin mRNA, complete cds
19113 0.8 0.0E+00 BE267173.1 19113 0.8 0.0E+00 AIGBG048.1 19117 31860 1.44 0.0E+00 L35930.1	6541	18083	31834	1.58	0.0E+00		12	Homo sapiens carcinoembryonio antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
19113 0.8 0.0E+00 AIGBG048.1 19117 31860 1.44 0.0E+00 L35930.1	6545	19097	31839	3.04	0.0E+00	BE257173.1	EST_HUMAN	601109532F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3350822 6'
1917 31860 1.44 0.0E+00 L35930.1	6562	19113		0.8	0.0E+00	-	EST HUMAN	ttoff10.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2248839 3' similar to TR:Q14839 Q14839 Mi-2 PROTEIN.;
	9999	19117		1.44	0.0E+00	L35930.1	N	Human anion exchanger (AE1) gene, exons 1-20
19126 31868 1.07 0.0E+00 BE797385.1	9299	19128		1.07	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6575 19128 31869 1.07 0.0E+00 BE797385.1 EST_HUMA	9575	19128		1.07	0.0E+00	BE797385.1	EST_HUMAN	EST_HUMAN 601587971F1 NIH_MGC_7 Homo sepiens cDNA clone IMAGE:3942329 5'

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vælue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6586	19137	31884	9.0	00+30'0	AI198025.1	EST_HUMAN	qi50b11.x1 NCL_CGAP_Bm25 Homo sepiens cDNA clons IMAGE:1859901 3' similar to TR:Q12838 Q12838 TRIIC ALPHA SUBUNIT;
6586	19137	31885	9'0	0.0E+00	AI198025.1	EST_HUMAN	qi50b11.xī NCL_CGAP_Bm25 Homo sapiens cDNA clons IMAGE:1859901 3' similar to TR:Q12838 Q12838 TFIIC ALPHA SUBUNIT;
6283	1		1.02	0.0E+00	BF357123.1	EST_HUMAN	MR0+HT0923-220800-102-b05 HT0923 Homo saplens cDNA
6597			1.19	0.0E+00	11435630	NT	Homo sapiens peptide transporter 3 (LOC51296), mRNA
6607	19158		2.0	0.0E+00	D55649.1	LN.	Human mRNA for alpha mannosidase II isozyme, complete cds
6627	19176	31930	66'0	0.0E+00	AW178142.1	EST_HUMAN	IL3-HT0062-010998-014-A04 HT0062 Homo sapiens cDNA
6648	19196	31947	0.82	00+30:0	BE674644.1	EST_HUMAN	7e02c12.x1 NCI_CGAP_LL24 Hamo septens cDNA clane IMAGE:3281302 3' similar to SW:Y176_HUMAN Q14681 HYPOTHETICAL PROTEIN KIAA0176;
6654		31953	1.07	0.0E+00	7662039 NT	L'N	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
8999			86.7	00+30'0	AV650020.1	EST_HUMAN	AV650020 GLC Hamo sapiens cDNA clone GLCCAD09 3'
2289		31974			AW 57 5598.1	EST_HUMAN	UI-HF-BLD-acc-g-12-0-UI.s1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058751 3'
0899				00+30'0	H01255.1	EST HUMAN	y/27b03.r1 Soares placenta Nb2HP Homo saplens oDNA done IMAGE:149933 6'
0639			0.52	0.0E+00	11426293 NT	NT	Homo saplens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
9699	19242		1.97	0.0E+00	X16377.1	NT	Human gene for the light and heavy chains of myeloperoxidase
6897	19244	31995	0.0	0.0E+00	AA456375.1	EST_HUMAN	aaf 4e07.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:813252 51
8698	19245	31988	1.18		A1612841.1	EST HUMAN	1257408 X1 NCI_CGAP_0v35 Horno saplens cDNA clone IMAGE:2292887 3' similar to SW:NTCS_HUMAN P53798 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2:
6704		32002			BE735989.1	EST HUMAN	601306368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639818 6'
6704			4.33	0.0E+00		EST_HUMAN	601305368F1 NIH_MGC_39 Homo saplans cDNA clone IMAGE:3639616 6'
6708				0.0E+00	AW748596.1	EST_HUMAN	MR0-BT0264-221199-002-f11 BT0264 Homo sapiens cDNA
9208	{	32010	0.81	0.0E+00	3.1	EST_HUMAN	MR0-BT0264-221199-002-f11 BT0264 Homo sepiens cDNA
6209	_				U77629.1	NT	Homo sapiens Achaete-Scute homologue 2 (ASCL2) gene, complete cds
6711					AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sepiens cDNA clone HEMBA1005360 5'
67.11			,		AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6718	l				BE780453.1	EST_HUMAN	601468712F1 NIH_MGC_67 Homo septens cDNA clone IMAGE:3871899 6'
67.17	_				X92217.1	NT	H.saplens germline immunoglobulin heavy chain, variable region, (13-2)
6735	_[0.0E+00	AI989483.1	EST_HUMAN	ws25c07.x1 NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:2498220 3'
6750	_			0.0E+00		EST_HUMAN	601105344F1 NIH_MGC_15 Hamo septens cDNA clane IMAGE:2987963 51
6750					BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2987963 5
6784	19327	32095	0.42	0.0E+00	BE867657.1	EST_HUMAN	601443175F1 NIH_MGC_65 Homo saplens cDNA clone IMAGE:3847291 5'
6789	19332	32102	0.46	0.0E+00	BF057438.1	EST_HUMAN	7k43h05.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3478498 3' similar to TR:O14553 O14553 R31240_1;

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8827			1.39	0.0E+00	AW 406348.1	EST_HUMAN	UI-HF-BL0-aco-h-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 6'
6827		32146	1.39	0.01	AW 406348.1	EST_HUMAN	UI-HF-BL0-aco-h-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6861	19401	32177	11.06	0.0E+00	AV719444.1	EST_HUMAN	AV719444 GLC Homo saplens cDNA clone GLCEHC08 5
6870	19410	32184	0.79	0.0E+00	BE898340.1	EST HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6870	19410	32185	62.0	0.0E+00	BE898340.1	EST_HUMAN	601881150F1 NIH_MGC_9 Homo septiens cDNA done IMAGE:3951301 6
6873	19413	32188	2.3	0.0E+00	AF190860.1	Z	Homo saplens low voltage-activated T-type calcium channel alpha 1G spice variant CavT.1a (CACNA1G) mRNA, complete cds
6876	19416	32191	0.47		L48546.1	F	Homo saplens tuberin (TSC2) gene, exces 38, 39, 40 and 41
8878	19418	32192	1.13	0.0E+00		N _T	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
6885	19425	32199	4.3	0.0E+00	AW163640.1	EST_HUMAN	au36h08.yf Schneider fetal brain 00004 Homo saplens cDNA clone IMAGE:2784159 6' similar to TR:015380 015390 GT24. [3] TR:043840 TR:043206;
6885	19425	32200	4.3	00+30°0	AW163640.1	EST HUMAN	ausishoß yr Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:015390 015390 GT24, [3] TR:043840 TR:043208;
6889	19429	32203	0.94	0.0E+00	W37163.1	EST_HUMAN	2020e08.11 Soares, fetal Jung, NbHL19W Homo septens cDNA clone IMAGE:302626 5' similar to SW:ZN45, HUMAN Q02388 ZINC FINGER PROTEIN 45;
6889	19429	32204	0.94	0.0E+00	W37163.1	EST HUMAN	2020e08.17 Soares, fetal, king, NbHi.19W Homo saptens cDNA clone IMAGE:302626 5' similar to SW:ZN45 HUMAN Q02388 ZINC FINGER PROTEIN 45:
6907			1.44	0.0E+00	BE794853.1	EST HUMAN	801589371F1 NIH MGC 7 Homo septens cDNA done IMAGE:3943604 5
6914			5.52	0.0E+00	BE799873.1	EST_HUMAN	601587561F1 NIH_MGC_7 Homo sepiens cDINA clone IMAGE:3941847 5
6915			0.84	00+30'0	BE767955.1	EST HUMAN	QV1-GN0085-140800-318-h02 GN0085 Homo sepiens aDNA
8915	- 1					EST_HUMAN	QV1-GN0085-140800-318-h02 GN0085 Homo septens cDNA
6919	ı					EST_HUMAN	601512058F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3913311 5'
6919						EST HUMAN	601512058F1 NIH_MGC_71 Hamo saplens cDNA clone IMAGE:3913311 5'
6928				0.0E+00		NT	Human antigen CD27 gene, excris 1-2
6933			2.65	0.0E+00	AL163204.2	NT	Homo saplens chromosome 21 segment HS21C004
6933			2.65	1	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6839	19478	32257	3.77	0.0E+00	TN 5865009	NT	Homo sapiens zona pellucida glycoprotain 3A (sperm receptor) (ZP3A), mRNA
6942	19480	32259	6.52	0.0E+00	A1638412.1	EST HUMAN	#31f11.x1 NCI_CGAP_GC8 Home septens cDNA done IMAGE:2242413 3' similar to SW:WNT3_MOUSE P17553 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR.:
6944	19482		1.65	0.0E+00	L32832.1	¥	Homo saplens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
6957			0.67	0.0E+00	AW505430.1	EST_HUMAN	UI-HF-BNO-ama-c-01-0-UI.r1 NIH_MGC_50 Homo saplens cDNA clone IMAGE:3081217 5
6829	_1	32275	4.36	0.0E+00	AA434584.1	EST_HUMAN	zw52c03.r1 Soares_total_fetus_Nb2HF8_9w Homo sepiens cDNA clone IMAGE:773668 5'
932			1.2		BF217200.1	EST_HUMAN	601885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE;4103693 5'
6980	19517	32289	1.58	0.0E+00	BE925875.1	EST_HUMAN	QV3-BN0047-300800-278-c06 BN0047 Homo saplens cDNA

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7015	19551	32337	0.67	0.0E+00	11428758 NT	NT	Homo saplens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A9), mRNA
7015	19551	32338		0.05+00	11428768 NT	FZ	Homo saplens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
7016			0.53	0.0E+00 A	AJ230823.1	EST_HUMAN	AJ230823 Homo sapiens library (Seranski P) Homo sapiens cDNA clone PS13D7 3'
7017			0.7	0.0E+00	0.0E+00 AW611984.1	EST_HUMAN	hg82e04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2952128 3'
7037	ı	ı	1.81	0.0E+00	AU125928.1	EST_HUMAN	AU125928 NT2RM4 Homo saplens cDNA clone NT2RM4002430 5'
7039	١.				BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo sapiens cDNA
7039			0.74		0.0E+00 BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo saplens cDNA
7063		32392	1.28		0.0E+00 BE142363.1	EST_HUMAN	CM0-HT0143-270999-062-408 HT0143 Homo sapiens cDNA
7087				0.0E+00 B	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo saplens cDNA
7087			26'0	0.0E+00/B	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo saplens cDNA
7115			0.51	0.0E+00	0.0E+00 AL163204.2	FZ	Homo saplens chromosome 21 segment HS21C004
7117	19650	32446	8.69	0.0E+00 B	BE169131.1	EST HUMAN	PM3-HT0520-230200-002-008 HT0520 Hamo saplens oDNA
7119	. 1			0.0E+00	0.0E+00 BF085667.1	EST_HUMAN	IL5-GN0032-180800-145-d07 GN0032 Homo sepiens cDNA
7160	19873	32696	3.58	0.0E+00	0.0E+00 AA190755.1	EST_HUMAN	298e03.r1 Strategene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627292.5'
7172	19885	32710	0.99	0.0E+00	U39573.1	IN	Human salivary peroddase mRNA, complete ods
							7e49b07xt NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:3222037 3' similar to TR:Q92285 Q92285
7176	┛			0.0E+00 B	BE671987.1	EST_HUMAN	TEKTIN.;
7188		_	7.18	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sepiens oDNA
7188					Al940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
7202		ı		0.0E+00	11435626 NT	NT	Homo saplens CD6 antigen (CD6), mRNA
7217					3.1	EST_HUMAN	DKFZp434D2021_r1 434 (synonym: htes3) Homo sepiens oDNA cione DKFZp434D2021 5'
7218	19830	32647	1.75	0.0E+00 X56163.1		· LN	H.saplens Immunoglobulin heavy chain gene, variable region
7221			0.78	0.0E+00	0.0E+00 AI168270.1	EST HUMAN	0010401.x1 Soares, NSF FB_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1565761 3' similar to TR:028623 Q28623 TEKTIN C1
7228		32655		0.0E+00	0.0E+00 BE734087.1	EST HUMAN	601587370F1 NIH MGC 21 Homo saplens cDNA clone IMAGE:3842080 5'
7250	18024	30407	1.47	0.0E+00 B	BE566381.1	EST HUMAN	601339977F1 NIH_MGC 53 Homo saplens cDNA clone IMAGE:3682267 5
7259			15.9	0.0E+00 B	BE867889.1	EST HUMAN	601443667F1 NIH MGC 65 Homo saplens cDNA clone IMAGE:3847697 5'
7259	18033	30417	15.9	0.0E+00 B	BE867889.1	EST HUMAN	601443687F1 NIH_MGC_65 Homo sepiens cDNA clone IMAGE:3847697 5'
7267	19772	32579	2.84	0.0E+00 B	BE550162.1	EST HUMAN	7b49f03.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-96.
7267	19772	32580	2.84	0.0E+00	BE550162.1	EST HUMAN	7b49f03.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3231561 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-96. :

Bina ii booodka oooo	t Top Hit Descriptor	AN 602128586F1 NIH _MGC_58 Homo sapiens cDNA clone IMAGE:428532 5'	Г	Г	Г	Homo sapiens catanin (cadherin-associated protein), delta 2 (neural piakophilin-related arm-repeat protein) (CTNND2), mRNA	Homo sapiens sodium channel, nonvoltage-gated 1, beta (Liddle syndrome) (SCNN1B), mRNA	1	Г	Г	Hamo sapiens Bloom syndrame (BLM) mRNA	Human MYCL2 gene, complete cds	Homo saplens cadherin 20 (CDH20) mRNA, complete cds	Hamo saplens cadherin 20 (CDH20) mRNA, camplets cds	Human neurofibromatosis type 1.gene, exon x6	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA	lg53c05.x1 Scares_NFL_T_GBC_S1 Home sapiens cDNA clone IMAGE:2112490 3' similar to AN COXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN;	tg53c08.xt Soares_NFL_T_GBC_S1 Home sapiens cDNA clone IMAGE:2112490 3' similar to SW:CXYB HUMAN P22069 OXYSTEROL-BINDING PROTEIN	П		Wf21c09.x1 Soares_Dieckgraefe_colon_NHUC Homo sapiens cDN4 clone IMAGE:2351248 3' similar to gb:M74297 HOMEOBOX PROTEIN HOX-A4 (HUMAN);contains PTR6.b1 MER22 MER22 repetitive element:	Т	Т	Т	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Homo saplens cillary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Homo saplens NALP1 mRNA, complete cds
	Top Hit Dafabase Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	Į.	EST HUMAN	EST HUMAN	EST_HUMAN	TN	FN	LN LN	NT.	FZ	NT.	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	LN	NT	NT	NT	NT
	Top Hit Acession	BF700780.1	BF088376.1	AA195108.1	AW391684.1	11034810 NT	11431474 NT	BE313075.1		BF569905.1	4557364 NT	J03069.1	AF217289.1	AF217289.1	M38113.1	11420775 NT	Al419969.1	A1419969.1	BE256708.1	Al660911.1	Al660911.1	AU118478.1	BE262941.1	Z37976.1	237976.1	AF257737.1	AF257737.1	AF310105.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00
	Expression Signal	0.73	1.54	1.54	0.41	13.17	1.19	0.53	0.53	3.41	0.72	2.15	1.58	1.68	1.16	3.58	0.61	0.61	0.77	0.43	0.43	1.19	6.26	2.96	2.96	3.35	3.35	1.44
	ORF SEQ ID NO:			32618				32630			32653			32625		30423	30424	30425	30429	30395	30396	30357			30363			30372
	Exan SEQ ID NO:	L			19807											18039	18040	18040	18045	18056	18056	18067	18070	18071	18071		18072	
	Probe SEQ ID NO:	7281	7295	7302	7303	7311	7313	7315	7315	7330	7338	7346	7356	7355	7356	7369	7370	7370	7375	7387	7387	7398	7401	7402	7402	7403	7403	7410

Table 4
Single Exon Probes Expressed in Lung

Table 4
Single Exon Probes Expressed in Lung

					mRNA,	1714644 3' int HGR	-	1714644 3'. int HGR				ļ		to TR:G806562														154911_ma1 IG
Top Hit Descriptor	601580948F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929722 6'	601580948F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3929722 5'	Homo sapiens vitamin D (1,25- dihydroxyvitamin D3) receptor (VDR), mRNA	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA	Homo saplens voltage-dependent calclum channel alpha 1G subunit Isoform as (CACNA1G) mRNA, complete cds	qc67a07.x1 Soares_placenta_8tx9weeks_2NbHP8tx9W Homo saplens cDNA clone IMAGE:1714844 3' similar to SW:ARSD_HUMAN P51689 ARYLSULFATASE D PRECURSOR contains element HGR	repetitive element;	qc67a07.x1 Scares_placenta_8tc9weeks_ZNbHP8tc9W Homo sapiens cDNA clone IMAGE:1714644.3' similar to SW-ARSD_HUMAN P51689 ARYLSULFATASE D PRECURSOR ;contains element HGR repetitive element;	Homo saplens candidate taste receptor T2R9 gene, complete cds	Homo saplens candidate taste receptor 12R9 gene, complete cds	Homo saptens myoshn, heavy polypeptide 8, skeletal muscle, pertneral (MYH8), mRNA	Homo saptens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA	602035089F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4182839 5	Zn60/09.r1 Strategerie muscle 937209 Homo sepiens cDNA clone IMAGE:562801 5' similar to TR:C806562 GRAFAO NERI II N	DKFZp434B0226 rf 434 (symonym: htss3) Hamp septens aDNA alone DKFZp434B0226 F	DKFZp434B0226_r1 434 (synonym: htes3) Homo sepiens aDNA clane DKFZp434B0226 5*	Homo sapiens partial mRNA for LTRPC5 protein (LTRPC5 gene)	601174676F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529794 6'	Homo sapiens hypothetical protein (FLJ20281), mRNA	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003969 5'	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds	Homo sapiens adlican mRNA, complete cds	H.sapiens DNA for ZNGP2 pseudogene, exon 4	Human P2x1 receptor mRNA, complete cds	Human P2x1 receptor mRNA, complete cds	EST368573 MAGE resequences, MAGD Homo sepiens cDNA	7a60h08.x1 NCI_CGAP_GC8 Home sapiens cDNA clone IMAGE:3223167.3' similar to gb:M54911_ma1 IG HEAVY CHAIN PRECURSOR V-II REGION (HUMAN);
Top Hit Database Source	EST_HUMAN	EST_HUMAN	F	LN.	. IN		EST_HUMAN	EST HUMAN	N _T	N.	NT	TN.	EST_HUMAN	EST HIMAN	EST HUMAN	EST HUMAN	LN	EST_HUMAN	۲	EST_HUMAN	ΝT	TN	NT	LΝ	NT	Į.	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	BE747231.1	BE747231.1	11436699 NT	11436699 NT	AF227744.1		A1128344.1	AI128344.1		AF227135.1	11426392	11426392 NT	BF337376.1	AA128453 1		AL079497.1	AJ270996.1	BE295499.1		AU118607.1	AF005213.1	AF005213.1	AF245505.1	X70172.1	U45448.1	U45448.1	AW956503.1	E672445.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.05+00	0.0E+00	000	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	· 0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	0.62	0.62	4.35	4.35	0.52		45.04	45.04	0.75	0.75	5.32	6.32	15.18	3.02	0.69	0.69	0.68	1.24	1.1	1.52	2.21	2.21	0.94	11.28	7.8	7.8	1.05	0.57
ORF SEQ ID NO:				32970	32984		33009		33013			33018		33021					33078		33081	33082	33092			33101	33117	33119
Exan SEQ ID NO:	ı			20116	20130		20152	_ ·	20155				20162	20164	ı	I. I		. 1	20216	_ {					20243		20257	20259
Probe SEQ ID NO:	7657	7697	7870	7670	7685		7707	7077	7710	. 7710	7713	7713	7117	7719	7724	7724	7735	7772	7774	1111	9//	7778	7790	7789	7801	7801	7815	7817

Top Hit Acession Database Source Source	W950516.1 EST_HUMAN EST362598 MAGE resequences, MAGA Homo saplens cDNA	F001543.1 [EST HUMAN AF001549 Human cDNA (Chandrasekharappa S.C.) Homo saplens cDNA clone keppa 200	F001543.1 EST HUMAN AF001543 Human cDNA (Chandrasekharappa S.C.) Homo sapiens cDNA cione kappa 200	Г	Z	1.1 EST HUMAN	Т	EST_HUMAN	ASS8405.71 NCI_CGAP_Lu31 Homo saplens cDNA clone IMAGE:2678640 5' similar to TR:Q08050 Q08060 NW 239328.1 EST HUMAN HNF3/FH TRANSCRIPTION FACTOR GENESIS	Г	Г	T HUMAN	EST HUMAN	EST HUMAN	Т	Г	1420784 NT	F306996.1 EST HUMAN 601889823F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:4123948 6	Г	EST_HUMAN	F	Π	1762581.1 EST HUMAN ICT/2405.x1 Normal Human Trabacular Rone Cella Homo sentens cONA close NIJTRC and 7408.	FST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	Γ
Most Similar (Top) Hit BLAST E Value	0.0E+00 AW	0.0E+00 AF0	٧	1	0.0E+00 M90	0.0E+00 BE4	1		0.0E+00 AW;		0.0E+00	. ~	Jw			<u> </u>		m				0.0E+00 ABO	0.0E+00 AI752561.1	0.0E+00 AI752561.1	0.0E+00 AA3	0.0E+00 AA399959.1	0.0E+00 AL046347.2	-
Expression Signal	2.62	0.62	0.62	0.62	0.72	0.65	0.44	1.16	1.89	1.41	3.97	1.81	99.0	0.73	0.65	0.83	0.43	1.04	1.04	1.08	0.62	0.42	4.07	4.07	0.51	0.51	0.63	
ORF SEQ ID NO:	33120	33149	33150	33151		33178	33189		33210		33231	33254	33261	33269	33275	33278	33291	33301	33302	33314	33353	33380	33381	33382	33447	33448	33449	
Exan SEQ ID NO:	20260	20287	20287	20287	20311	20312	20324	20343	20344	20384	20366	20387	20394	20389	20405	20408	20425	20435	20435	20444	20479	20503	20504	20504	20571	20571	20572	_
Probe SEQ ID NO:	7818	7847	7847	7847	7872	7873	7885	7904	7905	7927	7929	7950	7958	2963	7969	7972	7990	8002	8002	8012	88	8075	8076	8076	8148	8148	8149	_

Top Hit Descriptor	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds	HSU74315 Human chromosome 14 Homo saplens cDNA clone 1-4	HTM1-183F1 HTM1 Hamo saplens cDNA	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA	ba01e06.y1 NIH_MGC_7 Home septens cDNA done IMAGE:2823108 6' simitar to SW:P101_PIG O02698 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT;	ba01e06.y1 NIH_MGC_7 Homo sepiens cDNA done IMAGE:2823106 6' similar to SW:P101_P1G 002696 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT;	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 61	wb17g05.x1 NCI_CGAP_GC6 Homo eaplens cDNA clone IMAGE:2305976 3' similar to TR:075363 075363 AIBC1.;	wb17g05.x1 NCI_CGAP_GC6 Homo septens oDNA clone IMAGE:2306976 3' similar to TR:076363 076363 AIBC1.;	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA	_		602185808F1 NIH_MGC_45 Homo saplens cDNA clone IMAGE:4310256 6"	AU128622 NT2RP2 Homo sapiens cDNA clone NT2RP2005913 5	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e093'	cr42e09.x1 Jia bone marrow stroma Homo saplens cDNA clone HBMSC_cr42e093'	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA	AV758467 BM Homo sapiens cDNA clone BMFBGG05 5'	601593158F1 NIH_MGC_9 Homo sapiens cDNA clane IMAGE:3947385 5'	601593158F1 NIH_MGC_9 Homo saplens cDNA clane IMAGE:3947365 5	Homo saplens atrophir-1 inferacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 6	AU120424 HEMBB1 Homo seplens cDNA clone HEMBB1000655 5	nab22c04.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3263214.3' similar to contains element TAR1 repetitive element;
Top Hit Database Source	. LN	EST_HUMAN	EST_HUMAN	۲N	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	F	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	ΝΤ	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	Ä	EST_HUMAN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.		J74315.1	0.0E+00 BE439545.1	11417342 NT	AW672785.1	AW <i>6727</i> 85.1	0.0E+00 BF569905.1	A1825504.1	0.0E+00 AI825504.1	6912735 NT		5.1	0.0E+00 BF569862.1	0.0E+00 AU129622.1	0.0E+00 AW069274.1	AW089274.1	4501848 NT	0.0E+00 AV758467.1	0.0E+00 BE739870.1	BE739870.1	6912461 NT	6912461 NT	AU120424.1	AU120424.1	0.0E+00 BF580267.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00 U74315.1	0.0E+00	0.0E+00	0.0E+00 A	0.05+00	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00	0.0E+00 N76126.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	1.27	86.0	1.5	1.09	0.45	0.45	0.49	1.3	1.3	1.51	1.08	8.8	0.57	5.5	1.32	1.32	7.08	1.04	6.86	6.89	0.85	0.85	1.71	1.71	0.62
ORF SEQ ID NO:		33480					33523		33534										33605	33606	33607	33608	33609		33636
Exan SEQ ID NO:		20596	1	1	l	20627	20634	L		L				. 1	24647				20713	20713	20714			20715	20742
Probe SEQ ID NO:	8168	8174	8188	8189	8207	8207	8214	8224	8224	8233	8239	8248	8253	8258	8284	8284	8288	8295	8288	8288	8299	8239	8300	8300	8327

Probe SEQ ID NO:	Exem SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Välue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8341				0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'
8341	20756	33652	1.68	0.0E+00	0.0E+00 BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo saplens cDNA clone IMAGE:3884258 51
8378			0.42	0.0E+00	AF233437.1	Į	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1b mRNA, complete cds
8381	i.	33693	0.49		KB2224.1	NT	H.sapiens germline immunoglobulin heavy chain, variable region, (6-101)
8384	ı			0.0E+00	BE736034.1	EST_HUMAN	601305637F1 NIH_MGC_39 Hamo sepiens cDNA clone IMAGE:3640041 5'
8395	1	33708		H	AW956307.1	EST_HUMAN	EST388377 MAGE resequences, MAGD Homo sapiens cDNA
8405	20819	-	0.46	0.0E+00	BE503684.1	EST HUMAN	7a31a04.x1 NCI_CGAP_GC8 Homo septens cDNA clone IMAGE:3220302 3' similar to gb:367798 HYALURONIDASE PRECURSOR (HUMAN);
8429	1	l.	0.47	0.0E+00	Y16795.1	N	Homo sapiens psihHaA pseudogene
8431	20845			0.0E+00	AJ404468.1	N	Homo sapiens mRNA for dynain heavy chain (DNAH9 gene)
8431				0.0E+00	AJ404468.1	IN	Homo saplens mRNA for dynein heavy chain (DNAH9 gene)
8439				0.0E+00	W52673.1	EST_HUMAN	zc90f10.r1 Pancreatic Islat Homo sapiens cDNA clone IMAGE:338443 5'
8442	20856	33758	0.44	0.0E+00	11425128 NT	N F	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC83433), mRNA
8443			9.0	0.0E+00	AU117333.1	EST_HUMAN	AU117333 HEMBA1 Homo saplens cDNA clone HEMBA1001175 5
8 4 4			19.0	0.0E+00	BE613963.1	EST_HUMAN	601504084F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905733 5'
8458	_!		0.44	0.0E+00	AB001523.1	IN	Homo saplens gene for TMEM1 and PWP2, complete and partial cds
8470			0.43	0.0E+00	AW988044.1	EST_HUMAN	EST380119 MAGE resequences, MAGJ Homo sepiens aDNA
8471	20884	33782	0.63	0.0E+00	A1133436.1	EST_HUMAN	HA2043 Human fetal liver cDNA library Homo seplens cDNA
8501	20913	33808	9.0	0.0E+00	LN 9869869	IN	Homo saplens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8501	20913	33809	0.5	0.0E+00	LN 9669669	Į.	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR) mRNA
8502	L			0.0E+00	AW 403220.1	EST HUMAN	UI-HF-BK0-aar-h-04-0-UI.r1 NIH MGC 38 Home saplens cDNA clone IMAGE:3055710 6
8521			. 0.43	0.0E+00	AW 408410.1	EST_HUMAN	UI-HF-BK0-abk4-11-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3056780 5
8278	21013	33913	1.67	0.0E+00	AA149791.1	EST_HUMAN	2001c08.r1 Stratagene colon (#937204) Homo saplens cDNA clone IMAGE:566410 6
8608			2.07	0.0E+00	BE736048.1	EST_HUMAN	601305658F1 NIH_MGC_39 Hamo sapiens dDNA clone IMAGE:3639903 5'
8619			7.24	0.0E+00	M34872.1	N	Human amyloid-beta protein (APP) gene, exon 11
8619	21054	33961	7.24	0.0E+00	M34872.1	NT	Human amyldid-beta protein (APP) gene, exon 11
8645			2.28	0.0E+00	AA397551.1	EST_HUMAN	z481604.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:0300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) :
8648				0.0E+00	AU142402.1	EST_HUMAN	AU142402 Y79AA1 Homo sapiens cDNA clone Y79AA1000277 5'
8650	21085	33882		0.0E+00		EST_HUMAN	601285550F1 NIH_MGC_44 Homo sepiens cDNA clone IMAGE:3607237 5'
8650	_ [-	1.14	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'

Table 4
Single Exon Probes Expressed in Lung

- III-10 9-11-11	ORF SEQ Expression (Top) Hit Top Hit Acession Top Hit Dros Signal BLASTE No. Source		34004 1.06 0.0E+00 W95278.1 EST_HUMAN		1.18 0.0E+00 AU134114.1 EST_HUMAN	34017 2.21 0.0E+00 BF525534.1 EST_HUMAN	34018 2.21 0.0E+00 BF525534.1 [EST_HUMAN	34035 1.61 0.0E+00 AL120124.1 EST_HUMAN	34036 1.61 0.0E+00 AL120124.1 EST_HUMAN	1.31 0.0E+00 BE877693.1 EST_HUMAN	21176 34079 1.54 0.0E+00[AW600649.1 EST_HUMAN UHHF-BN0-akj-F-01-0-UI.r1 NIH_MGC_50 Homo septens cDNA clone IMAGE:3077496 6*	aug3b08x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE::2783789 3' similar to 144.28	34144 1.28 0.0E+00 11421722/NT	34118 1.17 0.0E+00 BE7466	34119 1.17 0.0E+00 BE745597.1	21225 34131 1.21 0.0E+00 AJZ71735.1 NT Homo sapiens Xq pseudoautosomal region; segment 1/2	21260 34166 2.21 0.0E+00 BE674157.1 EST HUMAN STAUFEN PROTEIN.;	0.0E+00 AI885671.1	34179 1.49 0.0E+00 BE563650.1 (EST_HUMAN	34180 1.49 0.0E+00 BE563650.1	34189 1.88 0.0E+00 11427235 NT	21278 34190 1.88 0.0E+00 11427235 NT Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA	21279 34191 0.95 0.0E+00 AA403192.1 EST HUMAN TR:G1304132 TPRD :	21279 34192 0.95 0.0E+00 AA403192.1 EST HUMAN TR:G1304132 TPRD.		AA398511.1 EST_HUMAN	34229 1.84 0.0E+00 BE837593.1 EST_HUMAN	34230 1.7 0.0E+00 AW364874.1 EST_HUMAN	34231 1.7 0.0E+00 AW364874.1 EST_HUMAN	21334 34247 1.46 0.0E+00 BE612586.1 EST_HUMAN 601452412F1 NIH_MGC_66 Homo sepiens cDNA done IMAGE:3856178 5
			L		6.																					1				
-	B Exam	62 21097	62 21097	8663 21098	8667 21102	79 21114	8679 21114		8698 21133	8727 21162		١.	8777 21211	_]	<u></u>	8826 21260		L	L	8844 21278			8845 21276	<u> </u>		!	L	8884 21318	
	Probe SEQ ID NO:	8	8	8	8	8	×	8	8	8	8		9	8	8	<u>80</u>			8	l m	æ	ౙ	8	88		ğ	ã	Ø	ã	త

						110 months 1 100	Oligio Lyonos Laprococa III Lang
Probe SEQ ID NO:	Exan SEQ (D NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8900	21334	34248	1.48	0.0E+00 BE	612586.1	EST_HUMAN	601452412F1 NIH_MGC_66 Hamo saplens cDNA clone IMAGE:3858179 67
8913	1		1.45	0.0E+00		TN	Homo sapiens chromosome 21 segment HS21C009
8913	Į	34265	1.45	1	0.0E+00 AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8928	21362	34275	0.92	0.0E+00	AA502294.1	EST HUMAN	ne25d10.s1 NCI_CGAP_Co3 Homo saplens cDNA clone IMAGE:882259 3' similar to TR:G1136434 G1136434 KIAAD187 PROTEIN.
8937	21371			0.0E+00	0.0E+00 BE890797.1	EST HUMAN	601431238F1 NIH_MGC_72 Hamo saplens cDNA clone IMAGE:3916569 5'
8820	1	34301	2.25	0.0E+00	4758695 NT	LN	Homo sapiens mitogen-ectivated protein kinase kinase kinase 13 (MAP3K13), mRNA
8956	21389	34302		0.0E+00	4758695 NT	N.	Homo sapiens mitogen-ectivated protein Idnase kinase kinase 13 (MAP3K13), mRNA
8008	21442	34362	1.74	0.0E+00	X98922.1	Į,	H.saplens mRNA for gamma-glutamyltransferase
6006)			0.0E+00		IN.	H.sapiens mRNA for gamma-glutamyltransfarase
6006	21442	34354	1.74	0.0E+00		IN	H.saplens mRNA for gamma-glutamyltransferase
9018	21449	34359	0.84	0.0E+00	U82979.1	N.	Human immunoglobulin-like transcript-3 mRNA, complete cds
3050	21482		1.46	0.0E+00	0.0E+00 AU131671.1	EST_HUMAN	AU131671 NT2RP3 Homo sapiens cDNA clone NT2RP3003016 6
900	1		,	}	7,000,000	107	2000 Land CAP Ut1 Home sapiens cDNA clone IMAGE:2707032 3' similar to gb:M14123_cds4
nona A	7Ab17		7.		0.0E+00 AW 913513.1	ESI HUMAN	REINOVINGS-RELAIED FOLFTOLEIN (PUMMI),
9062	21494	34403	3.18	0.0E+00 D	D52650.1	EST_HUMAN	HUM084C02B Clantech humen fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-084C02 5
. 9084	21516	34426	4.53	0.0E+00	0.0E+00 BE378495.1	EST_HUMAN	601236488F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3608709 5'
6806	21521	34429		0.0E+00	AA410545.1	EST_HUMAN	z32e04,r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:724052 51
0606			1.88	0.0E+00	BF313946.1	EST_HUMAN	601900571F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129744 5'
2608		34436			AW139673.1	EST_HUMAN	UI-H-BI1-adr-9-12-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
8097	Ш	34437			0.0E+00 AW139673.1	EST_HUMAN	UI-H-BI1-adr-8-12-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
9122			2.35		BE260272.1	EST_HUMAN	601150051F1 NIH_MGC_19 Homo sepiens cDNA clone IMAGE:3502836 5
9125					BF700165.1	EST_HUMAN	602127664F1 NIH_MGC_56 Hamo saplens cDNA clans IMAGE:4284542 5
9125	21557	34462			BF700165.1	EST_HUMAN	602127664F1 NIH_MGC_56 Home saplens cDNA clone IMAGE:4284542 5'
9125		34463	2.51		BF700165.1	EST_HUMAN	602127664F1 NIH_MGC_66 Homo septens cDNA clone IMAGE:4284542 6'
9134					AI458722.1	EST_HUMAN	tk13h11,x1 NCI_CGAP_Lu24 Hano saplens cDNA clone IMAGE:2150949 3'
9154	21586	34494	0.83		0.0E+00 AL449770.1	EST_HUMAN	AL449770 Homo saplens fetal brain (Stavrides GS) Homo saplens cDNA
9159	21591	34408	41 14		A 4 GR 2 F 2 7	NAMIH TRE	or80g02.s1 NCI_CGAP_Lu5 Homo saplens oDNA clone IMAGE:1602194 3' similar to gb:M36072 60S RIBOSOMAL PROTEIN 7A /HIMAN):
9165	ļ.,	L			10947037 NT	LN	Homo saplens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
9165	1	L				N	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
9184	21616	34527			Y11107.3	N	Homo sapiens ITGB4 gene for Integrin beta 4 subunit, exons 3-41
9186			1.8		0.0E+00 BE278917.1	EST_HUMAN	601156330F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3139734 5
							i

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Database Source	ТФ Hit Descriptor
9455	21886	34808	1.61	0.0E+00	0.0E+00 AB011150.1	M	Homo saplens mRNA for KIAA0678 protein, partial cds
9458	21887	34807	5.14	0.0E+00		EST_HUMAN	601589294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9463	21894	34815	1.28	0.0E+00		EST_HUMAN	601510247F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3911986 57
9463	21894	34816			0.0E+00 BE883843.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3911986 6
9477	21908	34829				NT	Homo sapiens mRNA for KIAA0594 protein, pertial cds
9479	21910	34832	1.65		AA344601.1	EST_HUMAN	EST60606 Gall bladder I Homo sapiens cDNA 5' end
9478	21910		1.65	_	AA344601.1	EST_HUMAN	EST50505 Gall bladder I Homo sapiens cDNA 5' end
9523	21938	34861	1,05		AW673469.1	EST HUMAN	ba64d08.y3 NIH_MGC_10 Homo sepiens cDNA clone IMAGE:2900367 5' similar to TR:060275 060275 KIAA0522 PROTEIN ;
9523	21938			Ĺ	0.0E+00 AW673469.1	EST HUMAN	ba54d08 y3 NIH MGC_10 Homo saplens cDNA clone IMAGE:2800367 5' similar to TR:060275 060275 KIAA0522 PROTEIN ;
9549	L				0.0F+00 BF207063.1	EST HUMAN	ba09005.yl NIH_MGC_7 Homo saplens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bc⊦-xL mRNA, complete cds (MOUSE):
	L						bagging, yi NIH MGC 7 Hamo saplens cDNA clane IMAGE.2823873 5' similar to gb:L35049 Mus musculus
9549	21963		1.97	0.0E+00	BE207063.1	EST_HUMAN	Bcl-XL mRNA, complete cds (MOUSE);
8559		35049	1.83	0.0E+00	0.0E+00 BF348013.1	EST_HUMAN	602023150F1 NCI_CGAP_Bm67 Hamo saplens cDNA clone IMAGE:4158300 51
9580	22003	34930	3.39	Ш	BE712515.1	EST_HUMAN	QV2-HT0698-250700-282-b08 HT0698 Homo septens cDNA
6096	22089	35017	1.02		5803069 NT	Ę	Homo sapiens leukocyte lonmunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
	1						Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5
6096	_1				Į.	LN.	(LILRB5), mRiyA
9617	22032	34962	1.29	0.0E+00 AI	AL042278.1	EST_HUMAN	DKFZp434L0120_r1 434 (syncnym: htes3) Homo sapiens cDNA cione DKFZp434L0120 5
9641			1.65	0.0E+00 A	A1088043.1	EST_HUMAN	ow60h01.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1651249 3' similar to TR:Q14677 Q14677 KIAA0171 PROTEIN. ;
9646		33834	1.24	0.0E+00	11560151	TN	Homo sapiens hypothetical CZH2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9646		33835	1.24		11580151 NT	TN	Homo sapiens hypothetical C2H2 zino finger protein FLJ22504 (FLJ22504), mRNA
9648	20939	33838	99.68	0.0E+00 AI	AI290909.1	EST_HUMAN	qm09808.x1 NCI_CGAP_Lu5 Homo sepiens cDNA clans IMAGE:1881298 3' similar to SW:RL2B_HUMAN P28316 60S RIBOSOMAL PROTEIN L23A.;
9848	20939	33839	9.68	0.0E+00 A	Al290909.1	EST HUMAN	qm09a06.x1 NCI_CGAP_Lu5 Homo sapiens dDNA clons IMAGE:1891298 3' similar to SW:RL2B_HUMAN P28316 60S RIBOSOMAL PROTEIN L23A.;
9649	<u> </u>			L		EST HUMAN	EST365026 MAGE resequences, MAGC Homo sapiens cDNA
9670		34947	3.01		0.0E+00 AF153466.1	N	Hamo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8
9581	22093					EST_HUMAN	601109842F1 NIH_MGC_16 Hamo saplens cDNA clane IMAGE:3350722 5'
9683		35024	1.38	╛		EST HUMAN	6014668228F1 NIH_MGC_67 Home septens cDNA clone IMAGE:3870007 5

Table 4 Single Exon Probes Expressed in Lung

					_	_	_		<u>.</u>	_	_		_	_	_	_		<u> </u>	_	_	_			_	_		_	_	
	Top Hit Descriptor	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 6'	au86c04.y1 Schneider fetal brain 00004 Horno saplens cDNA clone IMAGE:2783142 5' similar to gb:M36072 60's RIBOSOMAL PROTEIN L7A (HUMAN);	601145054F2 NIH_MGC_19 Homo saplens cDNA clone IMAGE:3160477 6	C06158 Human pancreatic Islet Homo saplens cDNA clone hbc5605	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605	601578683F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3927548 57	Hamo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA	601673425F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3956238 5'	Homo sapiens keratin 2e (KRT2E) gene, complete cds	Homo sapiens keratin 2e (KRT2E) gene, complete cds	RC2-BT0642-130300-017-g01 BT0642 Homo saplens cDNA	UI-HF-BN0-akg-b-12-0-UI.11 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3076943 5'	UI-HF-BN0-akg-b-12-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families	Homo saptens chromosome 9 duplication of the T cell receptor beta tocus and trypsinogen gene families	Homo sapiens mRNA for neuredin I-alpha protein, complete cds	UI-HF-BNO-akj-o-07-0-UI-r1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3077384 5	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds	AIGF=androgen-Induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]	AIGF=androgen-Induced growth factor AIGF Thuman. placenta. Genomic/mRNA, 498 nt. segment 5 of 51	601334603F1 NIH MGC 39 Homo sapiens cDNA clone IMAGE:3688680 5'	CM2-CT0311-301189-043-h11 CT0311 Homo sapiens cDNA	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 61	AU132349 NT2RP3 Homo saplens cDNA clone NT2RP3004260 5	UI-HF-8P0p-air-f-05-0-UI.r1 NIH_MGC_51 Hamp sepiens cDNA clone IMAGE:3072897 5
	Top Hit Database Source	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	N	NT	NT	EST_HUMAN	IN	TN.	EST_HUMAN	EST_HUMAN	EST_HUMAN	ΗN	IN	N.	EST_HUMAN	IN	TN	IN	EST HUMAN	EST_HUMAN	LV	EST HUMAN	EST_HUMAN	EST_HUMAN
	Top Hit Acession · No.	BE781382.1	AW163779.1	BE263191.1	C06158.1	C08158.1	BE746215.1	11437282 NT	11437282 NT	11437282 NT	BE900549.1	AF019084.1	AF019084.1	BE082977.1	AW500293.1	AW500293.1	AF029308.1	AF029308.1	AB036358.1	AW 500528.1	AF009868.1	378466.1	S78466.1	BE563320.1	AW363135.1	11424387 NT	AU132349.1	AU132349.1	AW 500836.1
Moet Similar	(Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	1.38	14.64	3.69	6.61	5.51	2.41	2.64	2.64	2.64	1.41	2.88	2.88	1.34	2.39	2.39	1.58	1.58	1.18	2.76	1.96	2.9	2.9	2.75	2.72	0.97	2.34	2.34	96.0
	ORF SEQ ID NO:	35028	35026	35038	35061	35062	35065				34993	35092	35093	35116	35133	35134	36139	35140	35153	35157	35190	35208	35209	35212		35235	35251	35252	
	SEQ ID NO:	22095	22097	22110	22135	22135	٠						22160	22181	22195	22195	22202	22202	22217	22221	22254	22289	22289	22271	22284		22308	LI	22316
	Probe SEQ ID NO:	5883	9685	8696	9712	9712	9714	8723	9723	9723	8739	9757	9757	9778	9792	9792	9789	9789	9814	9818	9851	9866	9866	9868	9881	9893	9066	9066	9914

Table 4

Table 4
Single Exon Probes Expressed In Lung

Probe SEO ID	Exan SEO ID	ORF SEQ	Expression	Most Struller (Top) Hit	Top Hit Acession	Top Hit	Too Hit Ossariotar
Š	Ö	Ö Q Q	Signal	BLAST E.	o Z	Source	
10196	. 22597	35564	1.01	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiene cDNA clone IMAGE:3830177 5
10223			1.13	0.0E+00		TN	Homo saplens hypothetical C2H2 zlnc finger protein FLJ22504 (FLJ22504), mRNA
10236	22637	36699	4.66	0.0E+00	AB006590.1	NT	Hamo sapiens mRNA for estragen receptor beta, complete cds
10236	22637	35600	4.66	0.0E+00	AB006580.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10237	22638	35601	1.09	0.0E+00	AA704457.1	EST HUMAN	z/19b06.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:450797 3' similar to gb:M14123_cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10239	_	35602	1.45	0.0E+00	M22921.1	Τ.	Human beta 1,4-galactosy-transferase mRNA, complete cds
10241	L	35605	4.47	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI_CGAP_Bm64 Homo sepjens cDNA clone IMAGE:4184939 5
10241	22642	35606	4.47	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI_CGAP_Bm64 Homo sepiens cDNA clone IMAGE:4184939 5
10258		35621	96.0	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA done IMAGE:3924578 5
10258		35622	96'0	0.0E+00	BE897149.1	EST_HUMAN	601439713F1.NIH_MGC_72.Homo saplens cDNA clone IMAGE:3824578 5
10292	22693	35657	1.01	0.0E+00	AI631818.1	EST_HUMAN	ws36e03.xt NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204 Q61204 NOTCH2-LIKE;
40000			70,	00.100		1000	wa38e03.x1 NCI_CGAP_Kld11 Hamo saplens cDNA clone IMAGE:2300188 3' similar to TR:Q61204
7670	-1		2.	0.05+00	A1021010.1	ESI HUMAN	מסומה אסומה ישורה הישומה מסומה ישורה הישומה מסומה ישורה הישומה מסומה הישומה הישומה הישומה הישומה הישומה הישומה
19333	- 1		1.58	0.0E+00		EST_HUMAN	FB23A4 Fetal brain, Strategene Homo sapiens cDNA clone FB23A4 3'end
10319			1.06	0.0E+00	AU122429.1	EST_HUMAN	AU122429 MAMMA1 Homo sepiens cDNA clone MAMMA1002368 6
10341	22741	35710	2.23	0.0E+00	BF436218.1	EST_HUMAN	nab45e12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3265271 3'
10342	22742		4.1	0.0E+00	AV654765.1	EST_HUMAN	AV654765 GLC Homo sapiens cDNA clone GLCDZC07 3'
10356	22756	35723	4.65	0.0E+00	AW617960.1	EST HUMAN	xu74b01.x1 NCI_CGAP_Kid8 Homo sepiens cDNA clone IMAGE:2807401 3' similar to gb:M69066 MOESIN (HUMAN);
10360	1	35727	5.52	0.0E+00	BE549213.1	EST_HUMAN	601078764F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464703 5
10385			2.39	0.0E+00		EST_HUMAN	601467419F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3870700 5'
10397		35771	2.24			EST_HUMAN	RC2-BT0842-150200-012-d03 BT0642 Homo saplens cDNA
10397			2.24		BE082720.1	EST_HUMAN	RC2-BT0642-150200-012-d03 BT0642 Homo saplens cDNA
10407			4.13	0.0E+00	BE743215.1	EST_HUMAN	601573896F1 NIH_MGC_9 Homo sapiens aDNA clone IMAGE:3835188 5'
10407			4.13	0.0E+00		EST_HUMAN	601573895F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3835198 5'
10410		35785	1.25	0.0E+00		EST_HUMAN_	601441723T1 NIH_MGC_65 Homo saplens cDNA clone IMAGE:3845856 3'
10410		35788	1.25	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo saplens cDNA clone IMAGE:3845956 3
10430		35800	98.0		AB029290.1	LN	Homo sapiens mRNA for actin binding protein ABP620, complete cds
10435					AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-e03 ST0197 Hamo saplens cDNA
10441				0.0E+00	AW963563,1	EST HUMAN	EST375636 MAGE resequences, MAGH Homo seplens cDNA
10451			9.88	0.0E+00		. IN	Homo saplens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10451	22802	35881	9.88	0.0E+0¢	11431124 NT	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA

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Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10455	22906	35885	2.41	0.0E+00	AW057621.1	EST_HUMAN	wy61f09.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo septens cDNA clone IMAGE:2553065 3' similar to TR:060568 060568 VDX;
10462	22912	35892	2.78	0.0E+00	BE243270.1	EST_HUMAN	TCAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0917
10465			4.51	0.0E+00	BF306642.1	EST_HUMAN	601888704F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122849 5'
10466				0.0E+00	BE872908.1	EST_HUMAN	601451502F1 NIH_MGC_65 Homo saplens cDNA clone IMAGE:3855289 5'
10466				0.0E+00	BE872908.1	EST_HUMAN	601451502F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3855289 5'
10472			4.75	0.0E+00	11545911 NT	LΝ	Homo sapiens NOD2 protein (NOD2), mRNA
10472			4.75	0.0E+00	11545911 NT	IN.	Homo sapiens NOD2 protein (NOD2), mRNA
10484			5.37	0.0E+00	AW404795.1	EST_HUMAN	UI-HF-BL0-acm-d-04-0-UI-r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059383 51
10488				0.0E+00	4504536 NT	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10488		35918		0.0E+00	TN 9534538 NT	Ŋ	Homo sepiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10489					AI991827.1	EST_HUMAN	wu32b06.x1 Soares_Dieckgraafe_colon_NHCD Homo sapiens cDNA clone IMAGE:25217153'
10492				0.0E+00	BE882109.1	EST_HUMAN	601505204F2 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3906865 51
10495			20.52	0.0E+00	BE891630.1	EST_HUMAN	601434522F1 NIH_MGC_72 Homo septens aDNA clone IMAGE:3919636 5'
10498	22948	35928	1.7	0.0E+00	8923839 NT	IN	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10498				0.0E+00	TN 6595393	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal musole, adult (MYH2), mRNA
10512	22961	35941	12.58	0.0E+00	BE903304.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957343 5'
10515	18631	31323	2.26	0.0E+00	AA195905.1	EST_HUMAN	7995b11.1 Strategene muscle 637209 Homo sapiens cDNA clane IMAGE:627933 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
10533	22980	35960	78.39	00+400	A A BOGORO 4	NAMIN TRA	mv17c08.s1 NCI_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1240718.3' similar to gb:X57809 IG
10534				0.0E+00	BE793498.1	EST HUMAN	601588829F1 NIH MGC 7 Homo sapiens cDNA clone IMAGE:3943015 6
10542	22989	32969	1.78	0.0E+00	BE729706.1	EST HUMAN	601562864F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10542		35970	1.78	0.0E+00	BE729706.1	EST_HUMAN	601562864F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 51
10543		35971	31.81	0.0E+00	AV727362.1	EST HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH08 6'
10543	22990	35972	31.81	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo saplens cDNA clone HTCAQH06 5'
10556	23003	35988	17.7	0.0E+00	AA464313.1	EST HUMAN	2x78c12.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:809878 5' similar to gb:X72487 IG KAPPA CHAIN PRECURSOR V-II REGION (HUMAN);
10559		35993	68.2	0.0€+00	AW516055.1	EST_HUMAN	xyo4g10.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852226 3' similar to gb:M60854 40S RIBOSOMAL PROTEIN S16 (HUMAN);
10594	23011	35998	6.55	0.0E+00	AU135741.1	EST_HUMAN	AU135741 PLACE1 Homo sapiens cDNA clone PLACE1002784 5
10568	23015	36000	5.04	0.0E+00	AW 59333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2946475 3' similar to contains element MSR1 repetitive element;

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10568	23015	38001	5.04	0.0E+00	0.0E+00 AW 593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945476 3' similar to contains element MSR1 repetitive element;
10568	23015	36002	5.04	0.0E+00 A	W59333.1	EST_HUMAN	hg13d02.xf Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE::2945475 3' similar to conteins element MSR1 repetitive element;
10570	_	38003	4.8	0.0E+00	34897.1	NT	H.seplens mRNA for H1 histamine receptor
10571			2,85	0.0E+00	13069.1	EST_HUMAN	HSC3IC031 normalized Infant brain cDNA Homo sapiens cDNA clone c-3ic03
10580	23027	38011	4.99	0.0E+00	0.0E+00 D10083.1	IN	Homo sapiens RGH1 gene, retrovirue-like element
10598	<u> </u>	36028	29.62	0.0E+00	0.0E+00 AW338094.1	EST_HUMAN	xw66f01.x1 NCI_CGAP_Pen1 Homo septens cDNA clone IMAGE:2832985 3' similar to gb:X17115 IG MU CHAIN C REGION (HUMAN);
10599	23044	36028	1.83	0.0E+00	0.0E+00 AW451230.1	EST HUMAN	UI-H-Bi3-alh-a-01-0-UI.s1 NCI_CGAP_Sub5 Hamo sapiens cDNA clone IMAGE:2736649 3'
10599	23044		1.83	0.0E+00	AW451230.1	EST_HUMAN	UI-H-BI3-ah-a-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
10601	12824		63.73	0.0E+00	4506632 NT	NT	Homo saplans ribosomal protein L31 (RPL31) mRNA
10603	23047	36032	2.34	0.0E+00	AB014567.1	IN	Homo saplens mRNA for KIAA0667 protein, partial cds
10615	23058	36047	2.88		BE298449.1	EST_HUMAN	601119248F1 NIH_MGC_17 Homo septens cDNA clone IMAGE:3029219 5
10626						TN	Homo saplens mRNA for KIAA0545 protein, partial cds
10631					AA377505.1	EST_HUMAN	EST90347 Synovial sarcoma Homo sapiens cDNA 6' end similar to similar to LERK-2, placenta
10638	23079		2.43	0.0E+00	BE264995.1	EST_HUMAN	801193824F1 NIH_MGC_7 Hamo sepiens aDNA clane IMAGE:3538012 5
10848	23088	36072		0.0E+00	BE792155.1	EST_HUMAN	601582046F1 NIH_MGC_7 Homo septens cDNA clone IMAGE:3936539 5
10849	23089		221.77	0.0E+00	BF684061.1	EST_HUMAN	602141405F1 NIH_MGC_46 Homo sapiens cDNA done IMAGE:4302432 5
10850	23090		2.31	00+30'0	BE269288.1	EST_HUMAN	801186342F1 NIH_MGC_8 Hamo septens cDNA clane IMAGE:3544259 6
10862	23092	36075	19.23	0.0E+00	AU118386.1	EST_HUMAN	AU118386 HEMBA1 Homo saplens cDNA clone HEMBA1003488 5
40000	00000			00.200	A COCOCCIATA	1444	Xn72b01.X1.NCI_CGAP_CML1 Home sapiens cDNA clone IMAGE:2699977 3' similar to gb:X02152_cds1 L- I ACTATE DEUXDDOCENAGE A CHAIN AHIMANN.
10858		25070	0 60			EST HIMAN	of 43-03 v. Soares lessis NHT Homo septems cDNA clone IMAGE-1752772 3'
10658	L					EST HUMAN	qf43c03.x1 Soares testis NHT Homo sepiens cDNA clone IMAGE:1752772.3'
10659	ł_	_		0.0E+00		EST HUMAN	QV4-ST0234-121169-032-b06 ST0234 Homo sapiens cDNA
10871	١_	1	Ĺ			EST_HUMAN	AU116908 HEMBA1 Homo sapiens cDNA clone HEMBA100025555
10674	23114	36089			11424726 NT	Z	Homo sapiens insulin receptor (INSR), mRNA
10675	23115	36090	2.97	0.0E+00	A[367350.1	EST HUMAN	იანი12.x1 NCI_CGAP_U12 Homo sepiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN. :
	1.	L					qv85c12.x1 NCI_CGAP_Ut2 Hamo saplens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673
10675	- 1					EST HUMAN	KAAO164 PKU EIN, ;
10678	- 1	1				EST_HUMAN	CVU-UMDUS-170400-191-309 UMUUS- Homo expiens curv
10678	23118	36098	86.11	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM0083-170400-191-d06 UM0093 Homo sapiens cUNA

Table 4
Single Exon Probes Expressed in Lung

-			_	Jane Circular		_	
SEQ ID	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10679	23119	36097	3.56	0.0E+00	BF340308.1	EST HUMAN	602037014F1 NOL_CGAP_Bm64 Hano sapiens cDNA clone IMAGE:4184979 51
10682	23122	36101	24.76	0.0E+00	BE261209.1	EST_HUMAN	801148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
10688	3 23128	36108	3.68	0.0E+00	AB007932.1	Ν	Homo sapiens mRNA for KIAA0463 protein, partial cds
10691		38111	8.98		U50326.1	NT	Human protein kipase C substrate 80K-H (PRKCSH) gene, exon 15-17
10694		36114	5.71		BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-f07 FT0134 Homo sapiens cDNA
10694	23133	36115	6.71	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-f07 FT0134 Hamo sapiens cDNA
10749	23454	38134	4. A. A. A. A. A. A. A. A. A. A. A. A. A.	001110	4 C970747 A	MALMIN TOD	ob32e07.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325412.3' similar to contains element
10716	1.	36138	3.34	_	AW 466922 1	EST HUMAN	he04h04.x1 NCI CGAP Kid12 Homo septens cDNA clone IMAGE:2872759.31
10723	3 23161	36145	3.36	-	AF252303.1	N-	Homo saplens signaling lymphooydo activation molecule (SLAM) gene, exon 2
10737	7 23175	36158	4.26	0.0E+00	BE266478.1	EST_HUMAN	601192748F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3536867 5
10737	23175	36159	4.26	0.0E+00	BE266478.1	EST_HUMAN	801192748F1 NIH_MGC_7 Homo sepiens cDNA clone IMAGE:3536867 5'
10739		36161	5.19	0.0E+00	C05089.1	EST_HUMAN	C05089 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHC4817
10746		36168	3.02	0.0E+00	AA746375.1	EST_HUMAN	oa56h01,r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
10746		36169	3.02	00+30°0	AA746375.1	EST_HUMAN	oa56h01.r1 NCI_CGAP_GCB1 Home saplens cDNA clone IMAGE:1309009 6'
10754	23192		2.13	00+30'0	BE392589.1	EST_HUMAN	601307408F1 NIH_MGC_44 Hamo saplens cDNA clone IMAGE:3625560 5
10756		36179	12.08	Ī	M78448.1	EST_HUMAN	EST00596 Fetal brain, Stratagene (cat#936206) Homo saplens cDNA clone HFBCC26
10756			12.08	0.0E+00	M78448.1	EST_HUMAN	EST00596 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCC26
10756	⅃		3.64	0.0E+00	BF363626.1	EST_HUMAN	QV2-HT0698-020800-295-d07 HT0698 Homo sapiens cDNA
10759	_ 1	36182	9.52			EST_HUMAN	DKFZp761J2116_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761J2116 5
10760		36189	4.14			EST_HUMAN	601336530F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690390 5'
1973		36191	4.8	_		EST_HUMAN	AU116988 HEMBA1 Homo saplens cDNA clone HEMBA1000424 5
10782	_	36202	2.18	-		EST HUMAN	AV693656 GKC Homo saplens cDNA clone GKCCNC03 5'
10789		36210	3:59		BF366553.1	EST_HUMAN	IL3-NT0104-200500-143-A07 NT0104 Homo saplens cDNA
10809	. 1	36229	2.48		BE182360.1	EST_HUMAN	PM0-HT0845-060500-002-E05 HT0645 Homo sapiens cDNA
1080		36230	2.48		BE182360.1	EST HUMAN	PM0-HT0645-060500-002-E05 HT0645 Homo saplens cDNA
10812			2.45		AV701152.1	EST_HUMAN	AV701152 ADA Homo sapiens cDNA clone ADAAAD06 5'
10829		36251	37.4	0.0E+00	AW 406380.1	EST_HUMAN	UI-HF-BLO-acs-c-09-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3060089 5
10832		36253	4.34	0.0E+00	BE896423.1	EST_HUMAN	601438092F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924142 5'
10836		36259	1.81	0.0E+00	AA524458.1	EST_HUMAN	ng45b07.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937717 3'
10836		36260	1.81	0.0E+00	AA524458.1	EST_HUMAN	ng45b07.s1 NCI_CGAP_Cc3 Homo sapiens cDNA clane IMAGE:937717 3'
10839	- 1	36263	4.43	0.0E+00	AW 500307.1	EST_HUMAN	UI-HF-BN0-akg-d-02-0-UI.r1 NIIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 6
10839	23273	36264	4.43	0.0E+00	AW 500307.1	EST_HUMAN	UI-HF-BN0-akg-d-02-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 6'

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10841	23276	38286	9.91	0.0E+00 BE		EST HUMAN	bb78c04.y1 NIH_MGC_10 Homo sapiens cDNA done IMAGE:3048486 5 similar to gb:Y00345_cds1 POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X65533 M.musculus mRNA for poly(A) ḥinding protein (MOUSE);
10854	23287	36278	1.64	0.0E+00	3038490.1	N	Homo sapiens gene for fukutin, complete ods
10863	23296		5.81	0.0E+00		NT	H.sapiens gene for ig kappa light chain variable region "011"
10877	23310		59.9	0.0E+00		EST_HUMAN	601440446F1 NIH_MGC_72 Homo saplens cDNA clone IMAGE:3925403 5'
10878	23311		6.04		П	EST_HUMAN	ao86g11.x1 Schiller meningiama Homo saplens cDNA clone IMAGE:1852804.3'
10878	23311		6.04			EST_HUMAN	ac86g11.x1 Schiller meningloma Homo saplens cDNA clone IMAGE:1852804.3'
10890	. 23322	36321			0.0E+00 AL042278.1	EST_HUMAN	DKFZp434L0120_r1 434 (synonym: htes3) Homo sapiens cDNA cione DKFZp434L0120 5
10904	23336	36340	2.08		0.0E+00 Al073917.1	EST_HUMAN	ou61404.x1 NCI_CGAP_Br2 Homo sapiens cDNA cione IMAGE:1632295 3' similar to SW:LRP1_HUMAN Q07954 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR;
10904	23336	36341	2.08	0.0E+00 A	073917.1	EST HUMAN	cu61d04.x1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632295 3' similar to SW:LRP1_HUMAN Q07954 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR;
10904	23336			0.0E+00 A	1073917.1	EST HUMAN	ou81d04.x1 NCI_CGAP_Br2 Homo septens cDNA clone IMAGE:1632295 3' similar to SW:LRP1_HUMAN Q07954 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR;
10916	23348	36357	3.75		4768827		Homo sapiens neurewin III (NRXN3) mRNA
10917	23349		,		0.0E+00 BF206561.1	EST_HUMAN	601870902F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:4101433 6'
10923	23366					EST_HUMAN	UI-H-BI2-age-h-01-0-UI.s1 NCI_CGAP_Sub4 Homo saplens cDNA done IMAGE:27243123'
10924	23356					EST_HUMAN	RC0-CT0380-210100-032-c10 CT0380 Homo sapiens cDNA
10924	23356					EST_HUMAN	RC0-CT0380-210100-032-c10 CT0380 Hamo septens cDNA
10928	23360		6:38		0.0E+00 AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
10928	23360	36371				IN	Homo sapiens mRNA for KIAA0717 protein, partial cds
10929	23361	36372	9.18		0.0E+00 BE206846.1	EST_HUMAN	ba04d07.yf NIH_MGC_7 Homo saplens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E1B- 65KDA-ASSOCIATED PROTEIN ;
10928	23361	36373	9.18		0.0E+00 BE206846.1	EST HUMAN	ba0407.7/ NIH_MGC_7 Home sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B- 56KDA-ASSOCIATED PROTEIN ;
10948	23379	36389	15.52		0.0E+00 BF093687.1	EST_HUMAN	QV0-UM0091-120800-385-b12 UM0091 Homo sepiens cDNA
10950	20408					NT	Homo sapians zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
10953	23383	36392	7.21		3.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Hamo sapiens cDNA
10953	23383			╝	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA

Top Hit Descriptor	QV2-NN0054-230800-333-e04 NN0054 Homo saplens cDNA	Human beta-prime-adaptin (BAM22) gene, exon 16	Human beta-prime-adaptin (BAM22) gene, exon 16	601439606F1 NIH_MGC_72 Homo saplens cDNA clone IMAGE:3924677 6'	Homo saplens fyr-related kinase (FRK) mRNA	Homo sapiens golgin-like protein (GLP), mRNA	601861947F1 NIH_MGC_53 Homo sepiens aDNA alane IMAGE:4081715 5'	601116705F1 NIH_MGC_16 Homo saptens cDNA clone IMAQE:3357384 5'	ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 6' similær to TR:076022 076022 E1B. 66KDA-ASSOCIATED PROTEIN ;	ba04d07.yt NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 6' similar to TR:O76022 O76022 E1B-65KDA-ASSOCIATED PROTEIN	QV0-CT0225-101299-071-f06 CT0225 Homo sapiens cDNA	ni42c08.s1 NCI_CGAP_Pr4 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M95178 ALPHA-ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);	wp05g08x1 NCI_CGAP_Kid12 Homo sepiens cDNA clone IMAGE:2464094 3'	drozbo8.x1 NIH_MGC_3 Homo espiens cDNA done IMAGE:2846919 67	UI-H-BW0-all-d-07-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:27295093'	Homo saplens neurexin III (NRXN3) mRNA	601113903F1 NIH_MGC_16 Homo eaplens cDNA clone IMAGE:3354600 5'	601659088R1 NIH_MGC_70 Homo saptems cDNA clone IMAGE:3895916 3'	601659088R1 NIH_MGC_70 Homo saplens cDNA done IMAGE:3895916 3'	LE-HT0731-020500-077-106 HT0731 Homo sapiens cDNA	UI-H-BW1-amw-a-05-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:30711213'	DKFZp434G178_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434G178 51	DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 5'	wn83g03.x7 NCI_CGAP_U11 Homo septens cDNA clone IMAGE:2452468 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);	nz11c07.s1 NCI_CGAP_GCB1 Homo espiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686 Q13686 ALKB HOMOLOG PROTEIN ;	nz11c07.s1 NCI_CGAP_GCB1 Homo eaplens cDNA clone IMAGE:1287468 3' sImilar to TR.Q13686 Q13686 ALKB HOMOLOG PROTEIN ;	601501090F1 NIH_MGC_70 Hamo sepiens cDNA clone IMAGE:3902926 6"
Top Hit Database Source	T HUMAN		INT	EST_HUMAN			EST_HUMAN	EST_HUMAN	EST_HUMAN	FST HIMAN	Т	EST HUMAN	Т	EST_HUMAN	Г		EST_HUMAN	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	i i	EST HUMAN	П
Top Hit Acession No.	5		U36264.1	BE897051.1	4503786 NT	8923698 NT	BF207662.1	BE257744.1	BE206846.1	RF206846 1	AW753028.1	AA558707.1	A1934954.1	AW327895.1	AW 292776.1	388Z7	BE254058.1	BE965909.2	BE986909.2	BE185656.1	BF513960.1	AL046540.1	AL046540.1	Al923116.1	AA760913.1	AA760913.1	BE910546.1
Most Similar (Top) Hit BLAST E Value	-	_	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.01	_	0.0E+00/	-	0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	_
Expression	99.19	2.73	2.73	96.6	1.76	12.49	4.1	1.62	8.43	8 43	1.99	6.94	10.47	23.92	2.41	1.85	2.69	2.67	5.57	5.27	2.05	6.62	6.52	38.26	13.39	13.39	5.83
ORF SEQ ID NO:	36523	36541	36542			36560			36606	36607	36609		30472	36615	38629	35801	36567	36588	69998	36570		36584	36585	36594	36632	36833	36638
Exan SEQ ID NO:	23495	23509	23509	23514	23515	23522	23524	23525	23565	23565	1	23572		23573	24658	22831				23531	23532	23545	23545	23663	23592		ப
Probe SEQ ID NO:	11070	11084	11084	11089	11090	11098	11100	11101	11112	11112	11114	11119	11120	11121	11136	11141	11147	11148	11149	11150	11151	11165	11165	11173	11178	11176	11180

Table 4
Single Exon Probes Expressed in Lung

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11187	22839	35811	12.19	0.0E+00	BE676347.1	EST_HUMAN	7f27f12.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3296919 3' similar to TR:O00409 O00409 CHECKPOINT SUPPRESSOR 1.;
11189	22841	35813	9.13	0.0E+00	A1683358.1	EST_HUMAN	to the transmission of the
11191	22843	35815	2.42	0.0E+00		EST_HUMAN	601279338F1 NIH_MGC_39 Homo saplens cDNA clone IMAGE:3611144 57
11191				0.0E+00	BE615666.1	EST_HUMAN	601279335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5
11198	•		1.98	0.0E+00		EST_HUMAN	AV757420 BM Homo sapiens cDNA clone BMFAGH03 5'
11202			8.71	0.0E+00	AL037746.1	EST_HUMAN	DKFZp564C187_r1 564 (synonym: hfbr2) Homo sapiens cDNA clone DKFZp564C187 6
11203	22855		2.06	0.0E+00		TN	Human oxytocinase variant 2 mRNA, complete cds
11208	22860	35834	. 283	0.0E+00	BE883386.1	EST_HUMAN	601509138F1 NIH_MGC_71 Homo sapiens cDNA done IMAGE:3910833 5
11234					1.39891.1	TN	Homo saplens polycystic kidney disease-associated protein (PKD1) gene, complete cds
11234	23602	36646	15.82	0.0E+00	L39891.1	LΝ	Homo sapiens polycystic kidney disease-associated protein (PKD1) gane, complete cds
11250		36662			AU138211.1	EST_HUMAN	AU138211 PLACE1 Homo saplans cDNA clone PLACE1008077 67
11261		36876	8.99	0.05+00	BE622317.1	EST_HUMAN	601441096F1 NIH_MGC_72 Homo saplens cDNA clone IMAGE:3916270 67
11287		96700	2.35		A1939634.1	EST_HUMAN	tm94c10.x5 NCI_CGAP_Bm25 Homo saplens cDNA clone IMAGE:2165778 3'
11295			125.07		BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo saplens cDNA clone IMAGE:3839012 3'
11295			125.07	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:38390123'
11304		36717	11.1	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo saplens cDNA clone THYRO1001398 5
11304	23669	36718	11.1	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo saplens cDNA clone THYRO1001398 6
11307	23672	36721	2.95	0.0E+00	AW006022.1	EST HUMAN	wz91h01.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2566226 3' similar to WP:F63H10.2 CE11040 ZINC FINGER, C2H2 TYPE:
	L.,						7h22b10x1 NCI_CGAP_Co16 Homo saplens cDNA clone IMAGE:3316699 3' similar to TR:Q13458 Q13458
11308						EST_HUMAN	TRIO.;
11322				0.0E+00		EST_HUMAN	DKFZp434L12Z7_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L1227 5'
11322		36736	4.57	0.0E+00		EST_HUMAN	DKFZp434L12Z7_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434L1227 5'
11326						EST_HUMAN	MR4-ST0118-261099-012-b03 ST0118 Homo saplens cDNA
11326	23690		3.88	0.0E+00	AW387776.1	EST_HUMAN	MR4-ST0118-261099-012-b03 ST0118 Homo sapiens cDNA
11329			2.2	0.0E+00		EST_HUMAN	602120069F1 NIH_MGC_56 Hamo saplens cDNA clane IMAGE:4277104 5
11334		36751	2.95			EST_HUMAN	zu03a12.r1 Soares_testis_NHT Homo captens cDNA clone IMAGE:730750 5
11338					AW863	EST_HUMAN	MR3-SN0010-310300-107-h03 SN0010 Homo septens cDNA
11350						NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11350	i 1					L	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11355						NT	Human beta-prime-adaptin (BAM22) gene, exon 5
11358	23721	36780	13.76	0.0E+00	BE379254.1	EST_HUMAN	601237691F1 NIH_MGC_44 Hamo sapiens cDNA clane IMAGE:3609623 5'

Probe NO: NO: 11358 11381 11382 11383 11384 11386 11386 11386 11386 11388 1138	Exan SEC ID NO: NO: NO: NO: NO: NO: NO: NO: NO: NO:	36784 36784 36784 36800 36801 36801 36816 36816 36816 36838 36838 36838 36838 36838 36838 36838 36838 36838 36838 36838 36838	Signal Signal Signal Signal Signal Signal 13.76 13.76 14.77 1.77 1.77 1.77 1.77 1.77 1.77 1.7	Most Similar (Top) Hit BLAST E Value O.0E+00 O	Top Hit Acess No. No. No. HE379254.1 AA488894.1 BE79633.1 AA603543.1 BE79633.1 AF063643.1 BE70636.1 BE70636.1 AF223391.1 D26535.1 BF681641.1	Top Hit Database Source EST HUMAN EST HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	Top Hit Deacribor Source SSUCRE SST HUMAN G012789IF NIH MOC 44 Home septens cDNA chen IMAGE:3808023 8 Grade Sept. 13 NO. CARL CARL CARL CARL CARL CARL CARL CARL
11465			3.52	0.0E+00 0.0E+00	BE744311.1 BE257612.1 BE257612.1	EST HUMAN EST HUMAN	801678528F1 NIH MGC_9 Homo sepiens cDNA clone IMAGE:3837222 5' 801113009F1 NIH MGC_16 Homo sepiens cDNA clone IMAGE:3363378 5' 601113009F1 NIH MGC_16 Homo sepiens cDNA clone IMAGE:3363378 5'
11486			1.94	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151299-001-c11 BT0348 Homo saplens cDNA

					,		
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Тор Hit Descriptor
11486	23844	36913	1.94	0.0E+00	AW749184.1		PM1-BT0348-151299-001-c11 BT0348 Homo saplens cDNA
11489	23847	36915	1.83	0.0E+00	AW367811.1		MR0-HT0168-271199-005-g03 HT0166 Homo saplens cDNA
11489	23847		1.83	0.0E+00	AW367811.1	EST_HUMAN	MR0-HT0168-271199-005-g03 HT0168 Homo saplens oDNA
11492	23860	36919		0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo saptens cDNA clone HEMBA1002012 6'
11492	23850	36920	5.27	0.015+0.0	AU117874.1	EST_HUMAN	AU117974 HEMBA1 Homo sepiens a DNA clane HEMBA1002612 5'
11508			1.78	0.0E+00		EST_HUMAN	600943204F1 NIH_MGC_17 Homo eaplens oDNA clone IMAGE:2959896 6'
11520					BE257612.1	EST HUMAN	601113008F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3353378 5'
11523				0.0E+00		NT	Homo sapiens CREB-binding protein mRNA, complete cds
11524	23882	36965	3.38	0.0E+00	AU132394.1	EST_HUMAN	AU132394 NT2RP3 Hamo saplens oDNA clone NT2RP3004339 5
11531	23889	36971		0.0E+00	AA628160.1		zu90b03.s1 Scares_testis_NHT Homo sapiens cDNA clone IMAGE:745229 3'
11531	23889	36972	1.85	0.0E+00		EST_HUMAN	zu80b03.s1 Soares_testis_NHT Homo sepiens cDNA clone IMAGE:745229 3'
11540	23897	36980	1.85	0.05+00		EST_HUMAN	601105662F1 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2988325 5'
11542	23899	36982	1.82	00+30'0	AA984839.1	EST_HUMAN	em93g10.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1630722 3'
							Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon (NFKBIE),
11543	23900	36983	1.87	0.0E+00	11419020 NT	N	mRNA
							Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon (NFKBIE),
11543			1.87		8 8	N	mRNA
11546	23903	36987	4.35	0.0E+00	BE747617.1	EST_HUMAN	601577501F1 NIH_MGC_9 Homo sapiens aDNA clane IMAGE:3926281 5'
11548	23905	36989	1.96	0.0E+00	AU133203.1	EST HUMAN	AU133203 NT2RP4 Homo sapiens cDNA clane NT2RP4001639 6'
11548	23906	36990		0.0E+00	AU133203.1	EST_HUMAN	AU133203 NT2RP4 Homo saplens cDNA clone NT2RP4001539 5'
11550	23907			0.0E+00		EST_HUMAN	601508046F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3809659 5'
11550		36983				EST_HUMAN	601508046F1 NIH_MGC_71 Homo sepiens cDNA clone IMAGE:3908659 5'
11651						EST_HUMAN	QV3-0T0083-290300-135-g12 OT0063 Homo sapiens cDNA
11566	24962	30448		0.0E+00	BE312542.1	EST_HUMAN	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
11579	24791		1.34	0.0E+00	AL163246.2	NT	Homo saplens chromosome 21 segment HS21C048
11681	24801		5.57		AI190993.1	EST_HUMAN	qe17b12.xt Soares_fetal_lung_NbHL19W Hamo saptens cDNA clane IMAGE:1739231 3'
11592	23928	3	2.78		AB011399.1	NT.	Homo sapiens gene for AF-8, complete cds
11612	23943	1	5.06		AL163246.2	NT	Homo saplens chramosome 21 segment HS21C048
11814	22045		4.40	004300	AB018105 1	<u> I</u> N	(d)H5)) euskopriese emmen elefa wiset dijirdojuurimmi pus (c)X (g) euskopriese (x) (d) elektropriese (x) (d) (d)
11621	1		3.44			Į.	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11640	L		3.52	L	5802973 NT	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mittochondrial protein, mRNA
11676	1	30679			AF240788 1	- L	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione, S-transferase theta 1 (GSTT1) denes, complete cds
	1	ĺ					

Top Hit Descriptor	DKFZp434K0819_r1 434 (synonym: htes3) Homo sapiens aDNA clone DKFZp434K0819 6'	pressed 1 (GTSE1), mRNA	DKFZp434G218_r1 434 (synonym: htes3) Homo sepiens cDNA clone DKFZp434G218 67	o sapiens cDNA	ywłoso8.s1 Soeres fetal Iiver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW:POL_BAEVM P10272 POL POLYPROTEIN ;	ase gene, complete cds	Homo saplens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Homo saplens T-cell lymphoma Invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens nuclear factor of activated T-cells, cytopiasmic, calcineurin-dependent 2 (NFATC2), mRNA	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking rapeat		Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	hg31e06.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2947234 3' similar to contains Alu	MEKZZ repetitive element;	0711 Homo sapiens cDNA	dase mRNA, complete cds	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 6' flanking region and partial cds	plete gename	an05h04.x1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684759 3'	mo sapiens cDNA	aDNA .	arotein 1 (KIAA0330), mRNA	orotein 1 (KIAA0330), mRNA	nRNA, complete cds	yo59e08.r1 Soarss breast 3NbHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMM_TRANSPEPTIDASE 6 PRECLIRSOR HUMAN):	yo59e08.r1 Soares breast 3NbHBst Homo sapiens cDNA clone IMAGE:182246 6' similar to gb:M84069 GAMMA-ci (1TAMY) TRANSPETINASE 5 PRECLIBSOR (HINAN)	ACTGP9) pseudogene	Homo saplens thyrold autoantigen 70kD (Ku antigen) (G22P1), mRNA	Homo sapiens thyrold autoantigen 70kD (Ku antigen) (G22P1), mRNA
	DKFZp434K0819_r1 434 (synonym	Homo saplens G-2 and S-phase expressed 1 (GTSE1), mRNA	DKFZp434G218_r1 434 (synonym:	IL-BT030-271098-001 BT030 Homo sepiens cDNA	yw40e08.s1 Soares fetal liver spleen 1NFLS Homo SW:POL_BAEVM P10272 POL POLYPROTEIN	Homo sapiens adenylosuccinate lyase gene, complete cds	Homo sapiens T-cell lymphoma inv	Homo sapiens T-cell lymphoma inv	Homo sapiens nuclear factor of acti	Homo sapiens X-linked anhidroitic	regions	Homo saplens low density lipoprote	hg31e06.x1 NCI_CGAP_GC6 Horr	repetitive element;contains element MERZZ repetitive element;	RC6-BT0711-290300-011-D05 BT0711 Homo sapiens cDNA	Human gamma-glutamyl transpeptidase mRNA, complete cds	Homo sapiens somatostatin recepte	Human endogenous retrovirus, complete genome	an05h04.x1 Stratagene schizo brain	QV-BT065-020399-103 BT065 Homo sapiens cDNA	HTM1-654F HTM1 Homo saplens cDNA	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens cavedin-3 (CAV3) mRNA, complete cds	yo59e08.r1 Soares breast 3NbHBs GAMMA-GLUTAMM_TRANSPEP	yo59e08.r1 Soares breast 3NbHBs GAMMA-GI LITAMYI TRANSPEPT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene	Homo sapiens thyroid autoentigen	Homo sapiens thyrold autoentigen
Top Hit Database. Source	EST HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	N.	TN	IN		NT	IN		ESI_HUMAN	EST_HUMAN	TN	LN	IN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	Į.	ΙΝ	EST HUMAN	EST HIMAN	Į.	N	TN
Top Hit Acession No.	AL041931.1	11418318 NT	AL046544.1	A1903497.1		AF106856.1	4507500 NT	4507500 NT	10092587 NT		AF003528.1	11430480 NT		AW 690082.1	BE090210.1	L20493.1	AF068767.1	1N 28435487 NT	AI204914.1	AI804646.1	BE439792.1	6912457 NT	6912457 NT	AF036365.1	H30132.1	H30132 1	D50659.1	11418189 NT	11418189 NT
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	-0.0	0.0=+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	4.12	3.14	5.38	2.02	1.98	4	4.26	4.26	2.63		2.88	1.73		8.77	1.46	1.41	3.18	3.15	1.89	1.37	1.19	1.55	1.55	1.48	3.58	3.58	35.58	3.32	3.32
ORF SEQ ID NO:							25868	26869				30851		3000										30934	26691	28892		30808	30909
Exan SEQ ID NO:			24017	24807				13421	24809			24569		1		- 1		1						24287	14212	14212			24309
Probe SEQ ID NO:	11689	11718	11725	11739	11782	11798	11801	11801	11810		11840	11877	7700	1830	11949	11968	11998	12037	12080	12116	12128	12142	12142	12161	12174	12174	12186	12189	12189

Table 4 Single Exon Probes Expressed in Lung

			_	_	_	_	_	_	_		_	_	_	_	_	_		_	
	Top Hit Descriptor	Homo espiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA	hi86s06.x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979154 3'	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA	Homo seplens hypothetical protein FLJ20454 (FLJ20454), mRNA	Homo sapians G protein-coupled receptor 24 (GPR24), mRNA	Homo sapiens low density lipoprotain-related protein 2 (LRP2), mRNA	Homo sapiens CST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens DNA for Human P2XM, complete cds	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	complete cds)	Hamo sapiens period (Drosophila) homolog 3 (PER3), mRNA	wu83607.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:2527596 3' similar to TR:Q12844 Q12844 BREAKPOINT CLUSTER REGION PROTEIN contains TAR1.13 TAR1 repetitive element:
	Top Hit Database Source	FZ	15	EST_HUMAN	Ę	IT.	1.5	Ļ	LN LN	17	LN.	L7	<u> </u>	IN	1		Ľ L	1T	EST HUMAN
6	Top Hit Acessian No.	AB026898.1	4758489 NT	AW684999.1	8922593 NT	11526291 NT	4885312 NT	6806918 NT	AB029900.1	9558724 NT	AL163246.2	6806918 NT	6912457 NT	AB002059.1	7657020 NT		AB026898.1	8567387 NT	AW025032.1
	Most Similar (Top) Hit BLAST E Vatue	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00
	Expression Signal	1.25	2.07	1.89	1.77	1.63	3.25	2.07	2.31	1.59	4.26	1.7	1.19	1.46	3.8		1.39	1.45	1.49
	ORF SEQ ID NO:		27046		85238		28248	30442		66808		25616	26494					30842	30847
	Exan SEQ ID NO:	24312	14632	24352	13793	24387	15828	18009	24410	24432	24974	13209	14031	24513	24517		24530	24642	24563
	Probe SEQ ID NO:	12192	12206	12251	12300	12307	12333	12343	12349	12391	12418	12423	12479	12512	12516		12541	12557	12585

(19) World Intellectual Property Organization International Bureau



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(21)	International Application Number	r: PCT/US01/006	665		AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
(22)	International Filing Date: 30 Janu	ary 2001 (30.01.200	01)		HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
(25)	Filing Language:	Engl	ish		NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
(26)	Publication Language:	Engli	ish		
(30)	Priority Data: 60/180,312 4 February 200	00 (04.02.2000)	US	(84)	Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European

US

US

US

60/234,687 21 September 2000 (21.09.2000) US 60/236,359 27 September 2000 (27.09.2000) US 4 October 2000 (04.10.2000) 0024263.6 (71) Applicant (for all designated States except US): AEOM-

26 May 2000 (26.05.2000)

30 June 2000 (30.06.2000)

3 August 2000 (03.08.2000)

ICA, INC. [-/US]; 928 East Arques Avenue, Sunnyvale, CA 94085 (US).

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60/207,456

09/608,408

09/632,366

- (75) Inventors/Applicants (for US only): PENN, Sharron, G. [GB/US]; 617 South Delaware Street, San Mateo, CA 94402 (US). HANZEL, David, K. [US/US]; 988 Loma Verde Avenue, Palo Alto, CA 94303 (US). CHEN, Wensheng [CN/US]; 210 Easy Street #25, Mountain View, CA 94043 (US). RANK, David, R. [US/US]; 117 El Dorado Commons, Fremont, CA 94539 (US).
- (74) Agent: RONNING, Royal, N., Jr.; Amersham Pharmacia Biotech, Inc., 800 Centennial Avenue, Piscataway, NJ 08855 (US).

tent (GH, GM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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- with international search report
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN LUNG

■ational Application No PCT/US 01/00665

A. CL	ASSIFICATION OF	SUBJECT MATTER
IPC	7 C1201/	SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EMBL, EPO-Internal, SEQUENCE SEARCH, WPI Data, PAJ, MEDLINE, BIOSIS, EMBASE, CHEM ABS Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages Relevant to claim No. X WO 99 23254 A (AFFYMETRIX INC ; NAIR 1-27 ARCHANA (US); LOCKHART DAVID J (US); WARRINGT) 14 May 1999 (1999-05-14) the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance Invention "E" earlier document but published on or after the International filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 0 7. 08. 2002 12 July 2002 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340–2040, Tx. 31 651 spo nl, Fax: (+31-70) 340–3016

Knehr, M

C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	WO 98 30722 A (MACK DAVID H) 16 July 1998 (1998-07-16) * see especially page 63, paragraph 2 * the whole document/	1-14, 22-24

	nation) DOCUMENTS CONSIDERED TO BE RELEVANT	· .
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BURGE C ET AL: "Prediction of complete gene structure in human genomic DNA" JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 268, no. 1, 25 April 1997 (1997-04-25), pages 78-94, XP002109301 ISSN: 0022-2836 the whole document	1-14, 22-24
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A	US 5 618 671 A (LINDSTROEM PER) 8 April 1997 (1997-04-08) column 1, line 60 -column 2, line 19 column 4, line 36 -column 5, line 29; claims	1-27
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А	EISEN M B ET AL: "Cluster analysis and display of genome-wide expression patterns" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 95, December 1998 (1998-12), pages 14863-14868, XP002140966 ISSN: 0027-8424 the whole document	1,12
	-/	

C.(Continu	etion) DOCUMENTS CONSIDERED TO BE RELEVANT		<u> </u>
ategory °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
1	DATSON N A ET AL: "Scanning for genes in large genomic regions: cosmid based exon trapping of multiple exons in a single product" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 24, no. 6, 1996, pages 1105-1111, XP002081565 ISSN: 0305-1048		1-27
	the whole document		•
A	DATABASE EMBL 'ONLINE! 'Online! European Molecular Biology Laboratory; 16 December 1998 (1998-12-16) BUETTNER C ET AL.: "The 3'-untranslated region of human type 2 iodothyronine deiodinase mRNA contains a functional selenocysteine insertion sequence element" Database accession no. AF093774 XP002205902 * see especially nucleotides 704-1157 * abstract		13
A	DATABASE EMBL 'Online! European Molecular Biology Laboratory; 15 June 1995 (1995-06-15) HUDSON T: "Human STS WI-7008" Database accession no. G06348 XP002205903 * see especially base pairs 76-550 * abstract		13
Ρ,Χ	PENN S G ET AL: "Mining the human genome using microarrays of open reading frames." NATURE GENETICS, (2000 NOV) 26 (3) 315-8., XP002183793 the whole document		1
P,A	STEPHAN D A ET AL: "POSITIONAL CLONING UTILIZING GENOMIC DNA MICROARRAYS: THE NIEMANN-PICK TYPE C GENE AS A MODEL SYSTEM" MOLECULAR GENETICS AND METABOLISM, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 70, no. 1, 2000, pages 10-18, XP001041271 ISSN: 1096-7192 the whole document		1-27
		·	

NAL SEARCH REPORT 1. Itemational application No. PCT/US 01/00665

INTERNATIONAL SEARCH REPORT

B x I Observati ns wher certain claims were f und un earchable (Continuation fitem 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Ctaims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. X As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-27 (partially)
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

The following statements about the impossibility of performing a meaningful search according to Art. 17(2) PCT are made for the subject matter for which a search has been performed and identified as the first invention in form 206 PCT. If additional fees are paid for the (one or more) as yet unsearched inventions, similar statements about incomplete searches could be issued.

Present claims 1-12 and 22-24 relate to an extremely large number of possible sets of nucleic acid probes comprising SEQ ID NOS:1-3 as well as microarrays comprising said sets. In fact, the claims contain so many possible permutations that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search for the sets of probes comprising SEQ ID NOS:1-3 has been limited to SEQ ID NOS:1-3 as such.

Claims 1-3, 5, 6, 8-15 and 18-24 relate to portions or fragments of nucleic acids defined by SEQ ID NOS:1-3. The length or other similar characterizing features of the portions or fragments is not disclosed, bringing the total number of possible prior art sequences to exceptionally high numbers. The shorter the length, the higher the possibility that an overflow of, in principle unrelated, sequences are retrieved, making the establishment of a meaningful International Search Report impossible. For this reason the search has been limited to portions or fragments of SEQ ID NOS:1-3 having a significant minimum length and being supported by the description, namely at least 15 contiguous nucleotides (see claim 16).

Claims 15-21 relate to an extremely large number of nucleic acid probes. The probes are defined solely by their potential to code for peptide SEQ ID NOS:25010 and 25011. However, due to the degeneracy of the genetic code, this peptide is potentially coded by an extremely high number of nucleic acid sequences. In fact, the claims contain so many potential nucleic acid sequences that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search over the whole scope of the claims impossible. The search has therefore been carried out for those parts of the claims which do appear to be clear and concise, namely the nucleic acid sequences disclosed in the application and identified as encoding the referred (poly)peptide in table 4 (SEQ ID NOS: 1-3, 12623, 12624, 25010 and

Likewise, claim 26, which refers to peptides encoded by SEQ ID NOS:1-3 and SEQ ID NOS:12623 and 12624, encompasses a high and undefined number of possible peptides. Besides three possible reading frames deriving from the encoding nucleic acid strand, as well as three additional reading frames deriving from the complementary nucleic acid strand, every possible fragment of these is being covered by the claim. This is due to the potential presence of stop codons within any of the six possible reading frames which can not be established a priori. Thus, claim 26 contains so many potential peptide sequences that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search over the whole scope of the claim impossible. Consequently, the search has been carried out for those parts of the claim which do appear to be clear and concise, namely the peptide

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

disclosed, identified by SEQ ID NOS:12623 and 12624.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-27 (partial)

A nucleic acid probe comprising SEQ ID NOS:1 or 2, complementary sequences or fragments thereof, in particular comprising SEQ ID NO:12623, spatially addressable sets of probes comprising said sequence(s), microarrays comprising said sets, a method for measuring gene expression, a method for identifying exons, a method for assigning exons to a single gene comprising the use of said arrays and peptides encoded by SEQ ID NOS:1,2 and 12623 (in particular the one defined by SEQ ID NO:25010).

Invention 2: Claims 1-27 (partial)

A nucleic acid probe comprising SEQ ID NO:3, complementary sequences or fragments thereof, in particular comprising SEQ ID NO:12624, spatially addressable sets of probes comprising said sequence(s), microarrays comprising said sets, a method for measuring gene expression, a method for identifying exons, a method for assigning exons to a single gene comprising the use of said arrays and peptides encoded by SEQ ID NO:3 and 12624 (in particular the one defined by SEQ ID NO:25011).

Inventions 3 to 12614: Claims 1-27 (partial)

A nucleic acid probe comprising SEQ ID NO:n (where n ranges from 4-12614 according to the invention number above; as disclosed in table 4), complementary sequences or fragments thereof, in particular comprising the SEQ ID NO. which is listed in the column "Exon Seq. Id. no." in the same row within table 4 that contains Seq. Id. n, spatially addressable sets of probes comprising said sequence, microarrays comprising said sets, a method for measuring gene expression, a method for identifying exons, a method for assigning exons to a single gene comprising the use of said arrays and peptides encoded by SEQ ID NO:n, in particular the one defined by the SEQ ID NO in the column "ORF Seq. Id. no." of the same row where SEQ ID NO:n is listed.

information on patent family members

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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			JP		T	13-11-2001
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			EP	1090144		11-04-2001
			WO	9967422	A 1	29-12-1999

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(19) World Intellectual Property Organization International Bureau



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	HU. ID. IL. IN. IS. JP. KE. KG. KP. KR. KZ, LC. LK, LR.
(22) International Filing Date: 30 January 2001 (30.01.20	
(A.E. 1711)	NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM.
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(30) Priority Data:

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(71) Applicant (for all designated States except US): AEOM-ICA, INC. [—/US]: 928 East Arques Avenue. Sunnyvale. CA 94085 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): PENN, Sharron, G. [GB/US]: 617 South Delaware Street. San Mateo, CA 94402 (US). HANZEL, David, K. [US/US]: 988 Loma Verde Avenue. Palo Alto, CA 94303 (US). CHEN, Wensheng [CN/US]: 210 Easy Street #25, Mountain View, CA 94043 (US). RANK, David, R. [US/US]: 117 El Dorado Commons, Fremont, CA 94539 (US).
- (74) Agent: RONNING, Royal, N., Jr.: Amersham Pharmacia Biotech. Inc., 800 Centennial Avenue, Piscataway, NJ 08855 (US).

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A

(54) Title: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN LUNG

(57) Abstract: A single exon nucleic acid microarray comprising a plurality of single exon nucleic acid probes for measuring gene expression in a sample derived from human lung is described. Also described are single exon nucleic acid probes expressed in the lung and their use in methods for detecting gene expression.

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(19) World Intellectual Property Organization International Bureau



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60/180.312	4 February 2000 (04.02.2000)	US
60/207,456	26 May 2000 (26.05.2000)	US
09/608,408	30 June 2000 (30.06.2000)	US
09/632,366	3 August 2000 (03.08.2000)	US
60/234.687	21 September 2000 (21.09.2000)	US
60/236.359	27 September 2000 (27.09.2000)	US
0024263.6	4 October 2000 (04.10.2000)	GB

(71) Applicant (for all designated States except US): AEOM-ICA, INC. [-/US]: 928 East Arques Avenue, Sunnyvale. CA 94085 (US).

(72) Inventors; and

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(54) Title: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN LUNG

(57) Abstract: A single exon nucleic acid microarray comprising a plurality of single exon nucleic acid probes for measuring gene expression in a sample derived from human lung is described. Also described are single exon nucleic acid probes expressed in the lung and their use in methods for detecting gene expression.